

FIG. 1

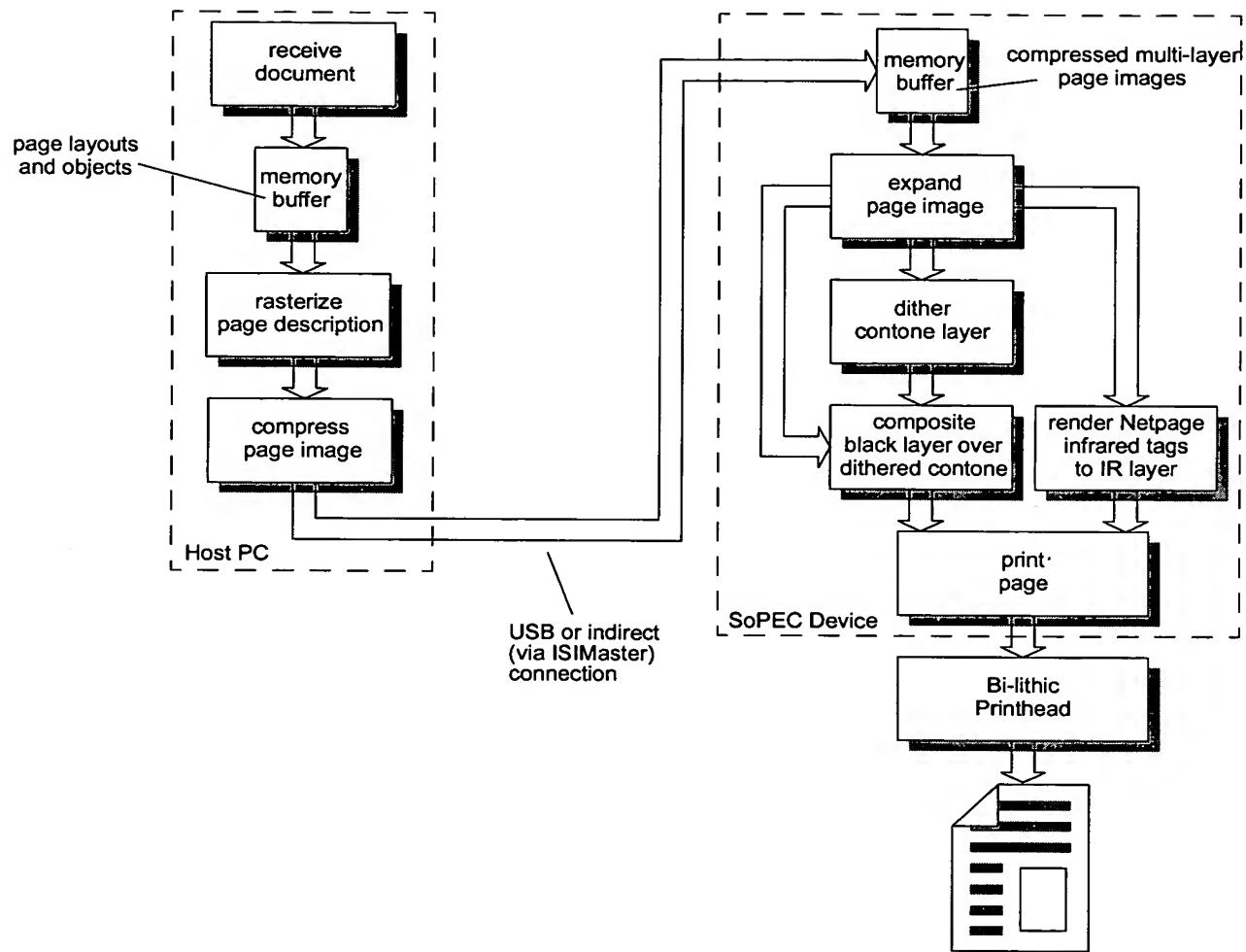


FIG. 2

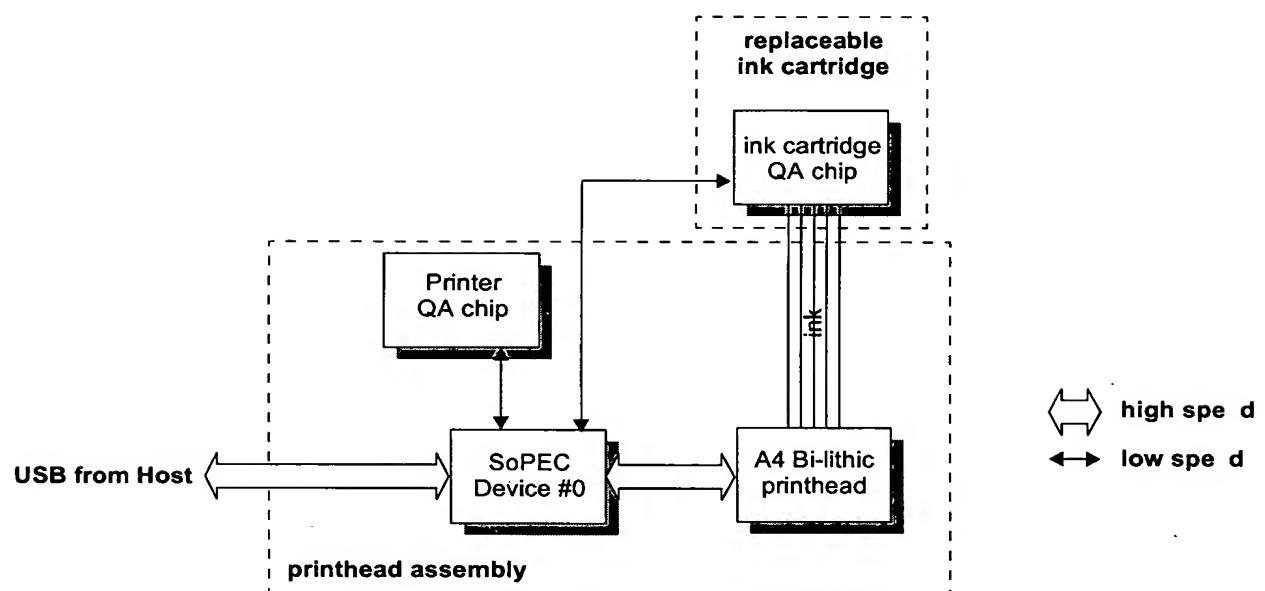


FIG. 3

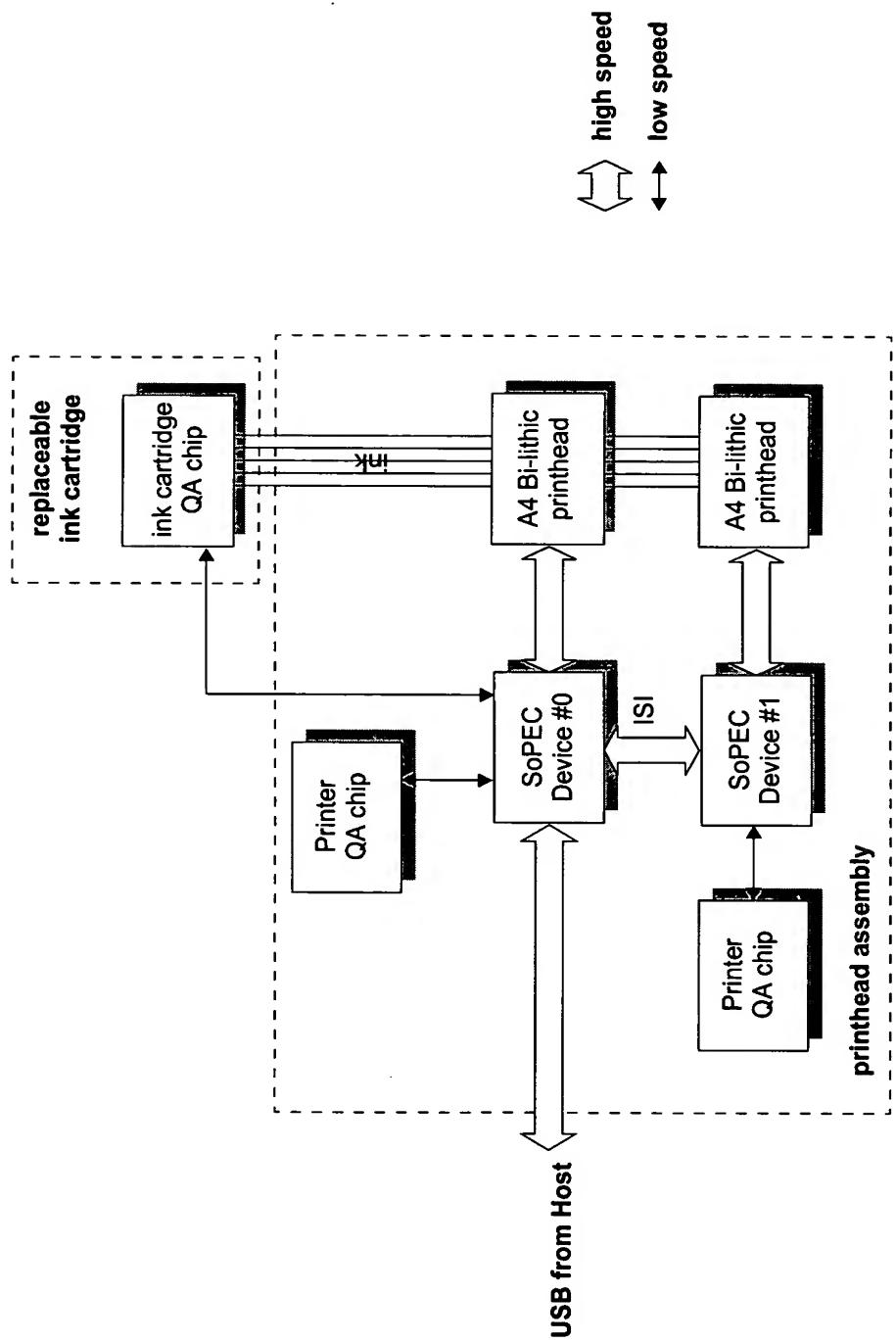


FIG. 4

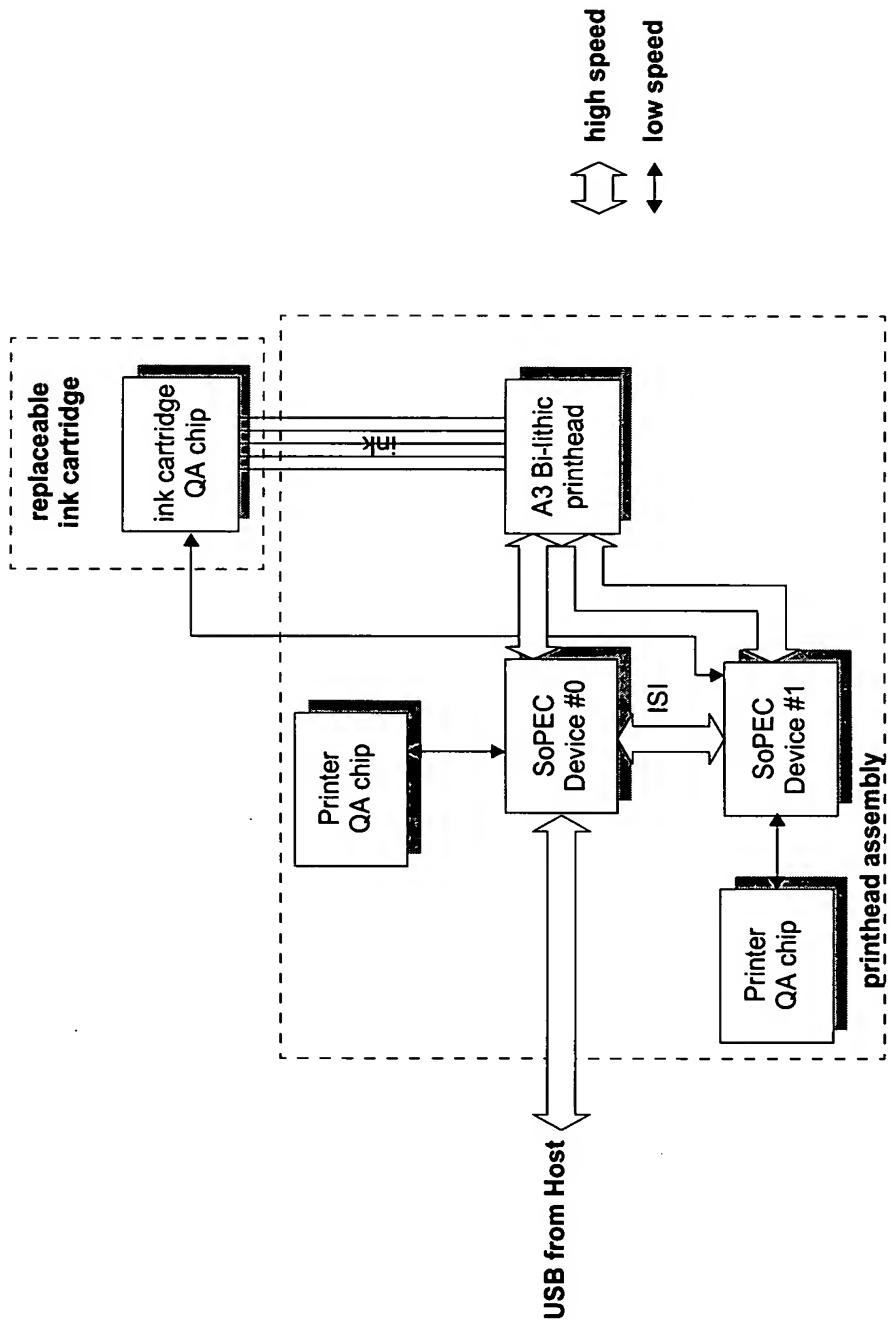


FIG. 5

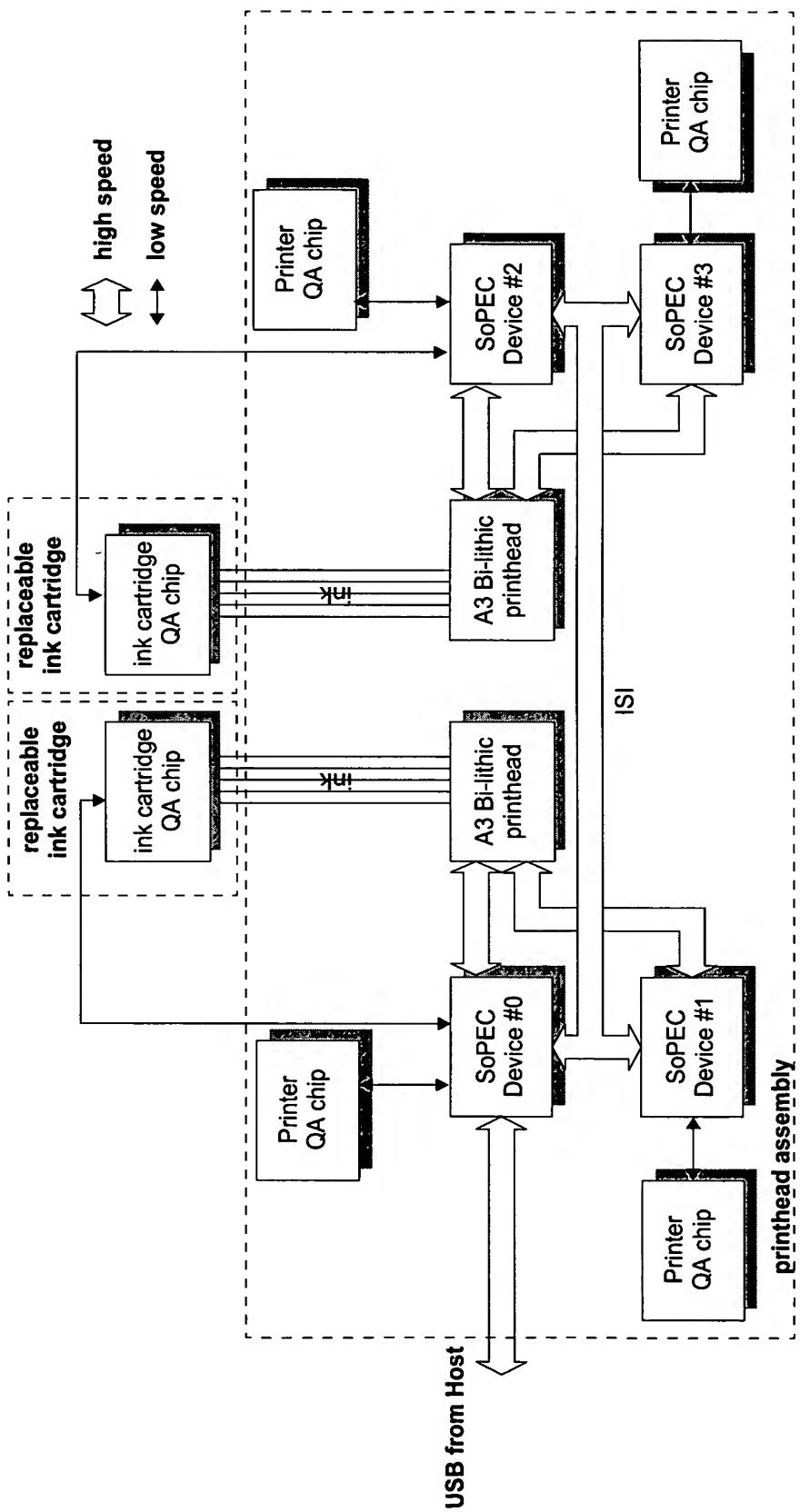


FIG. 6

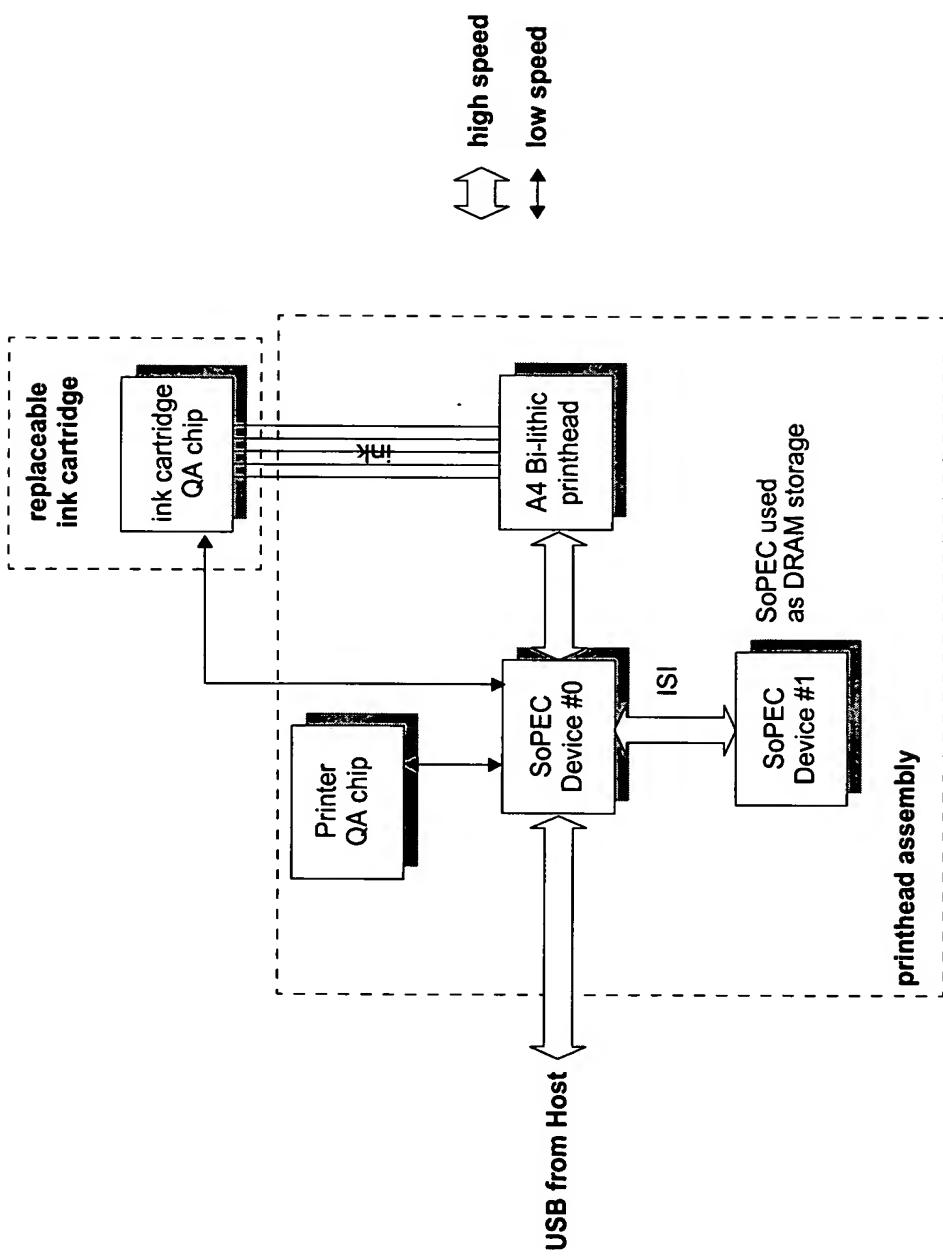


FIG. 7

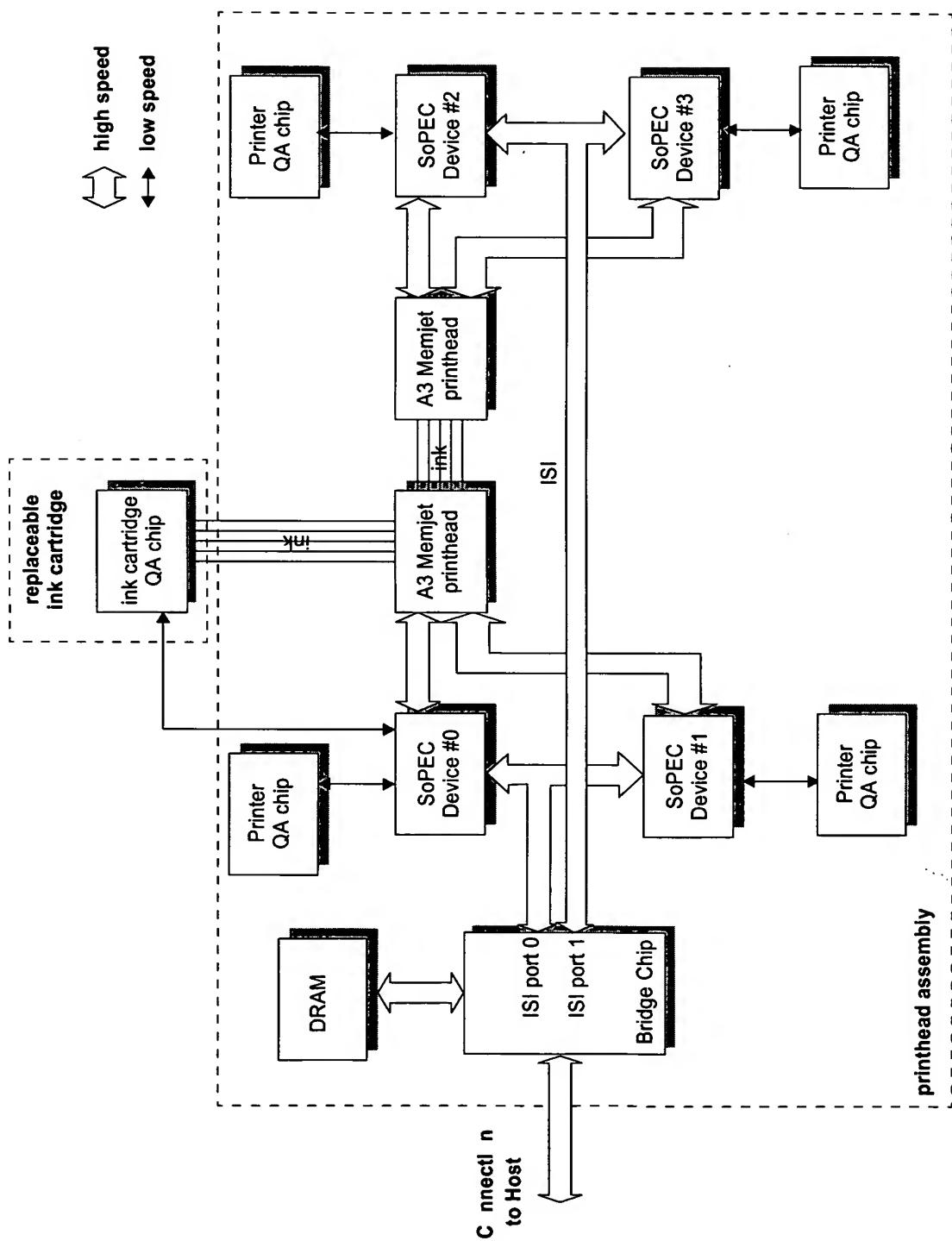


FIG. 8

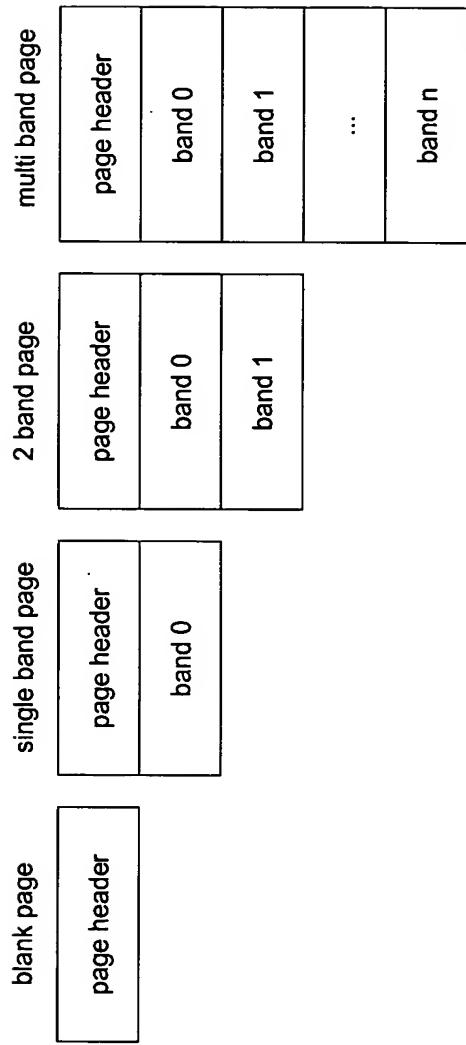


FIG. 9

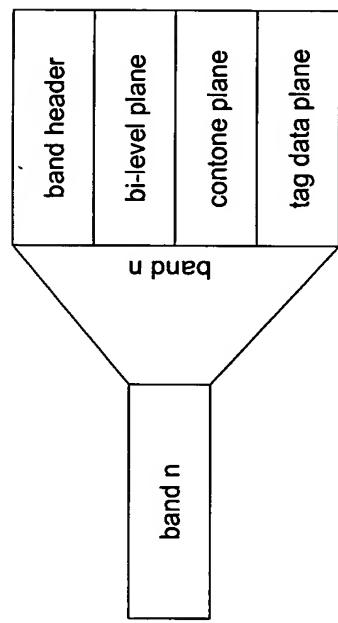


FIG. 10

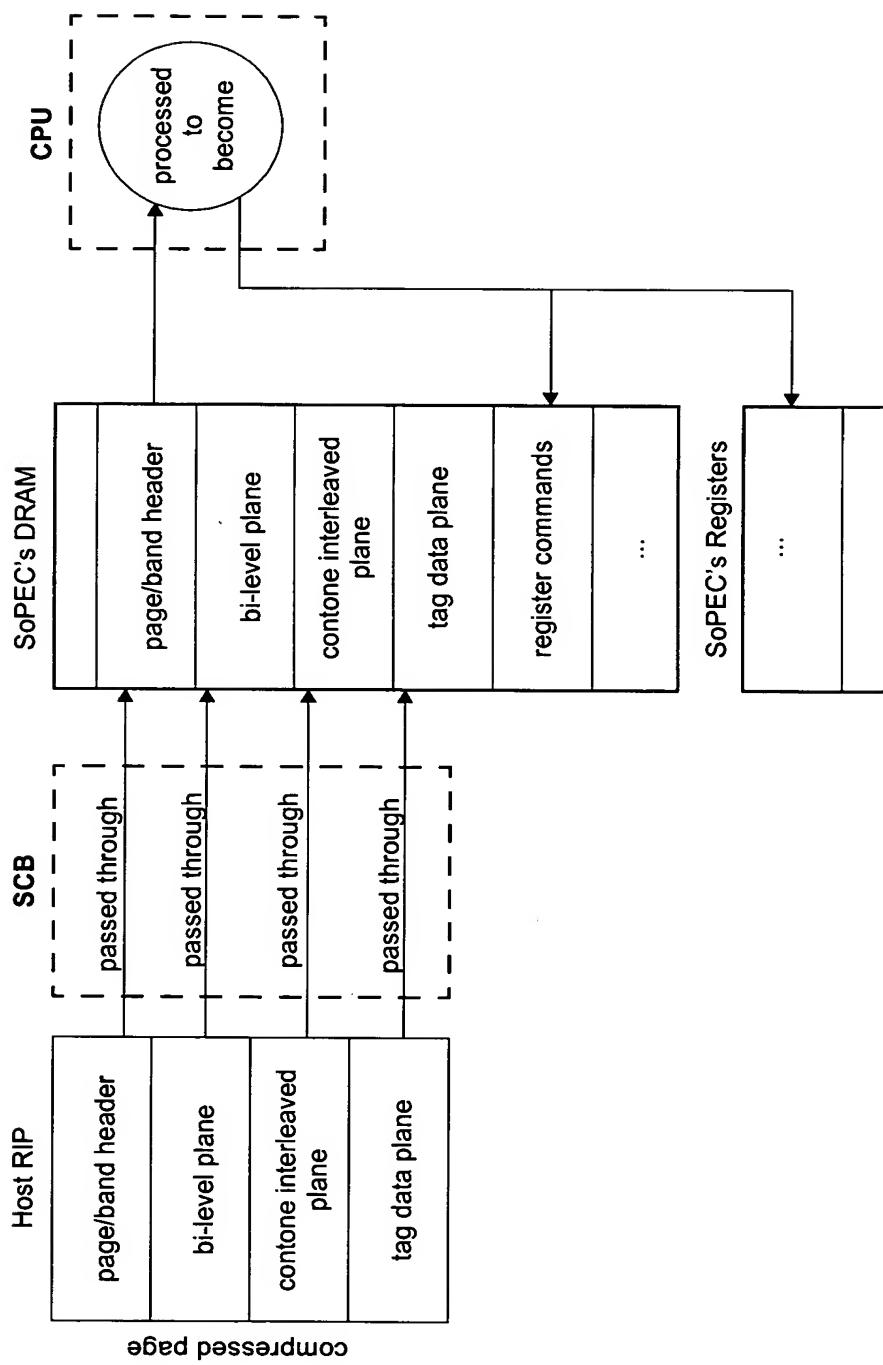


FIG. 11

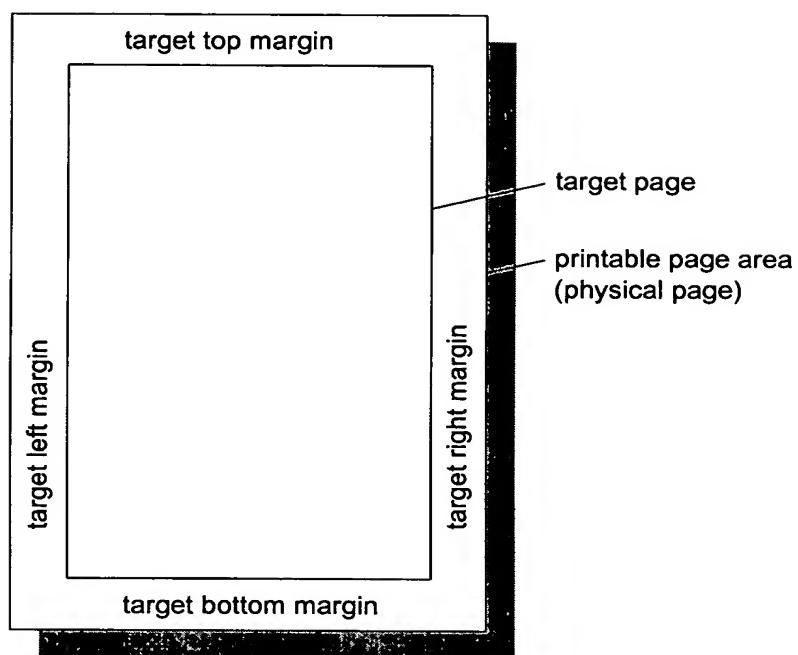


FIG. 12

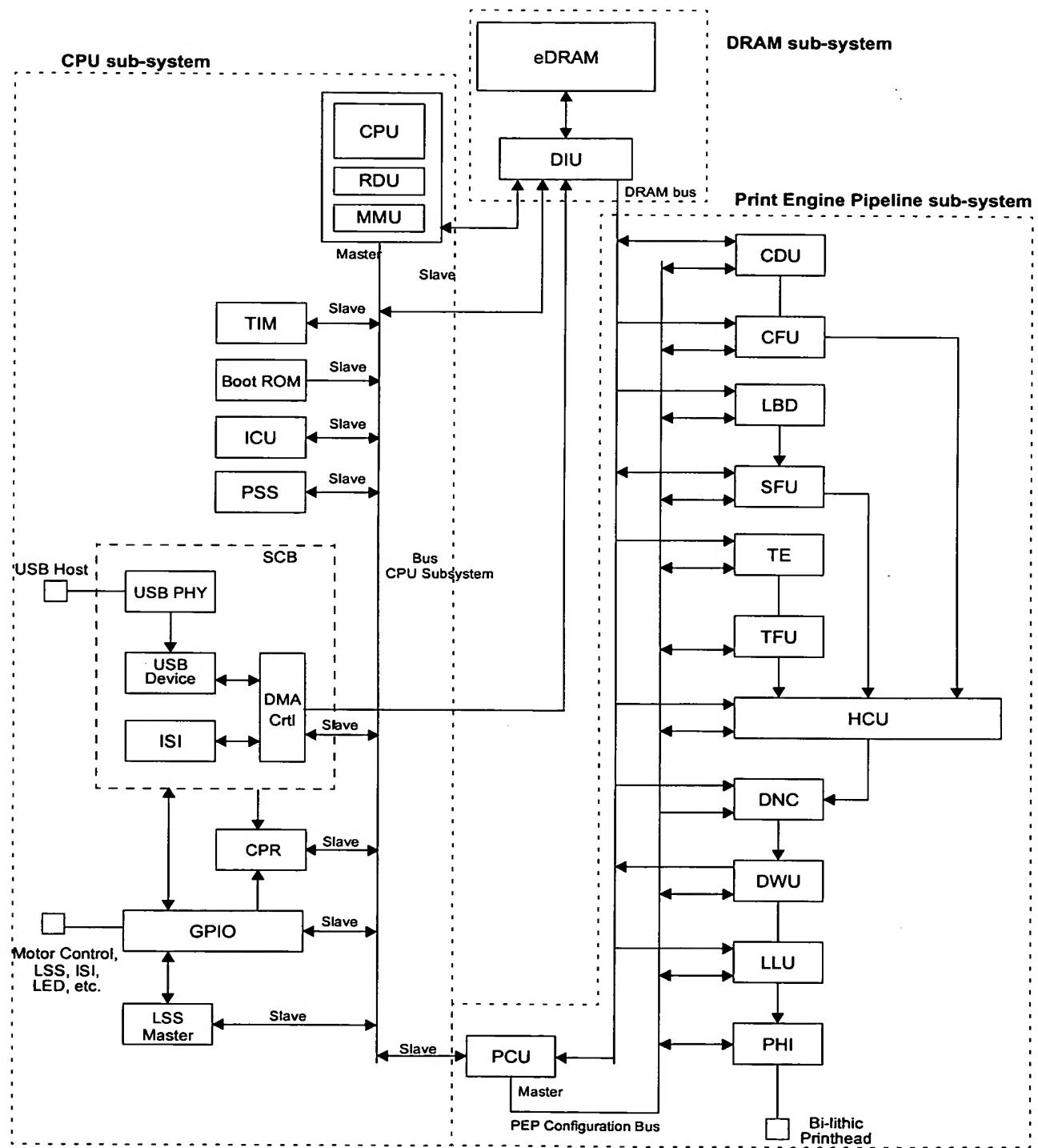


FIG. 13

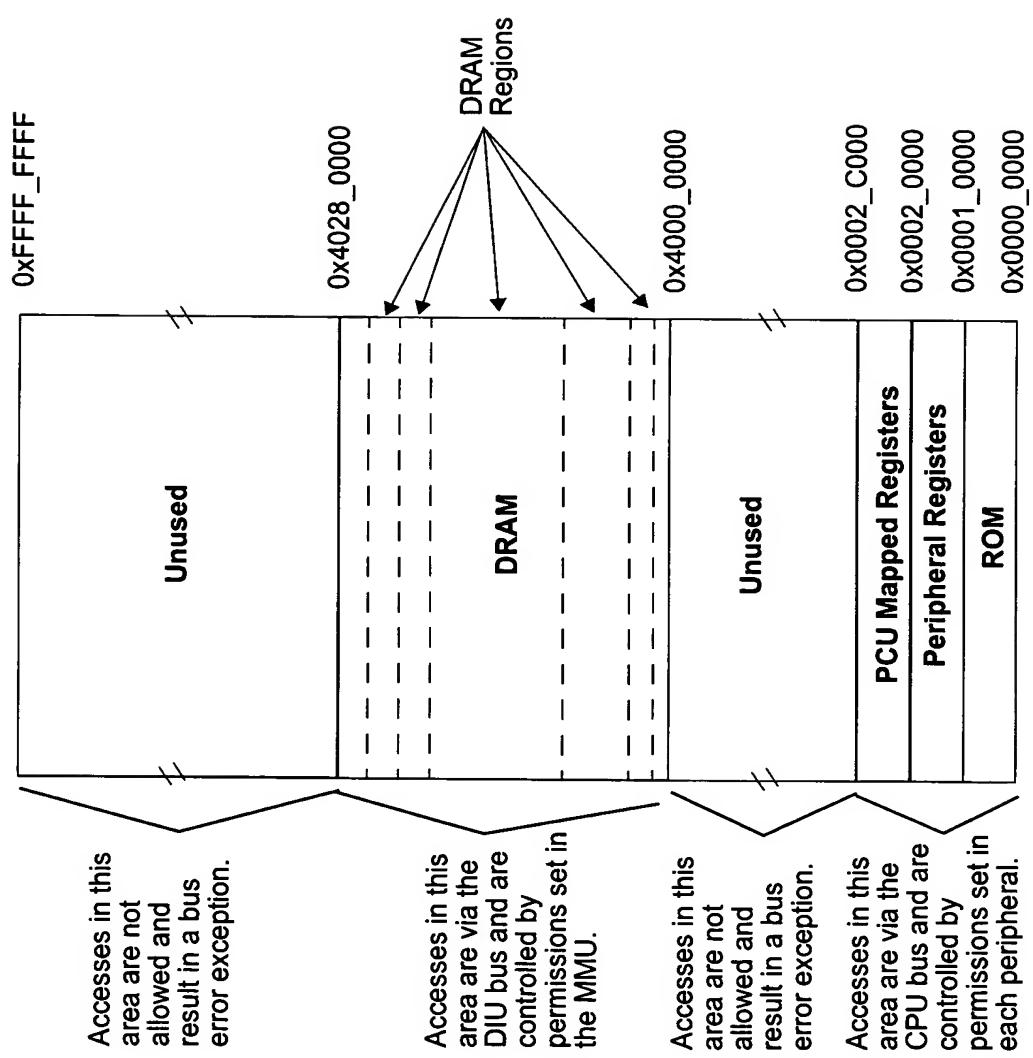


FIG. 14

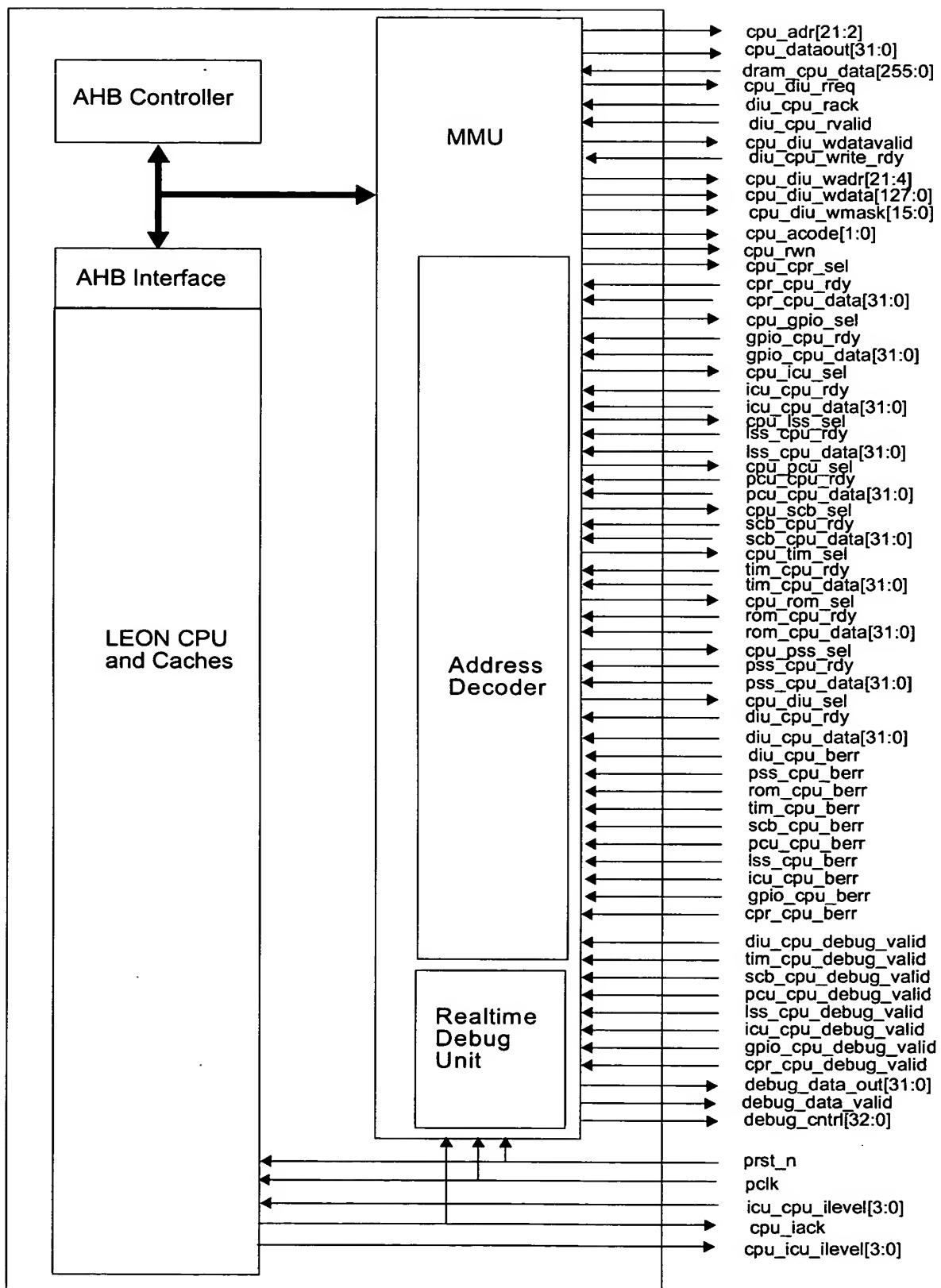


FIG. 15

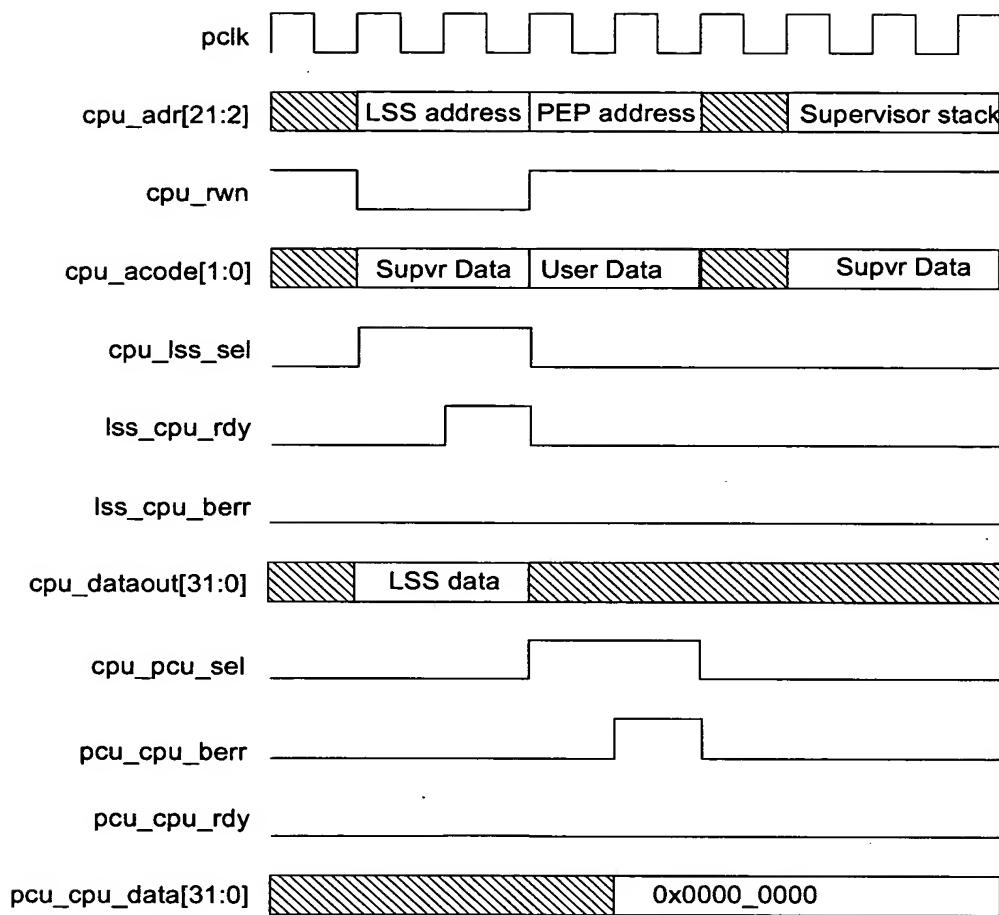


FIG. 16

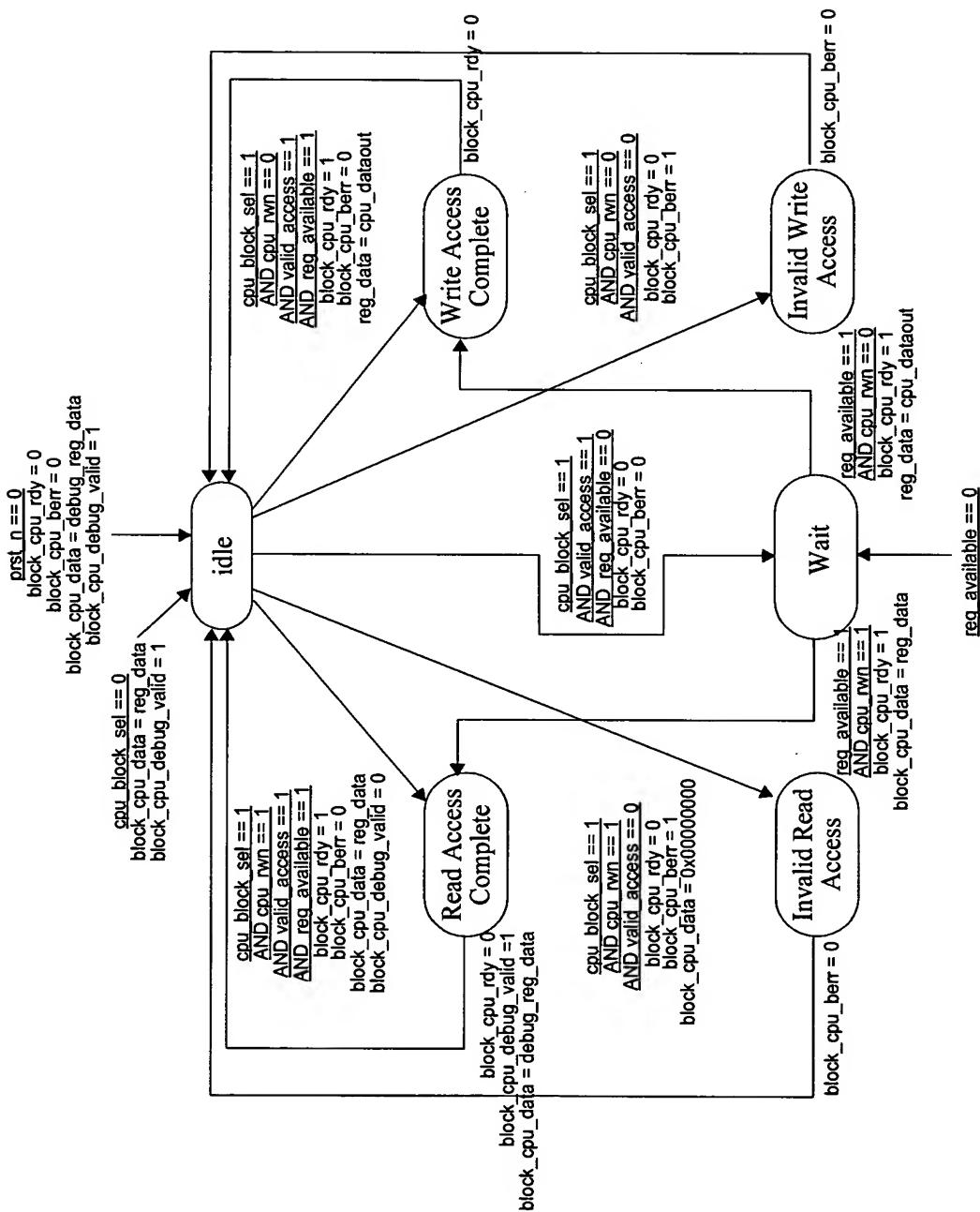


FIG. 17

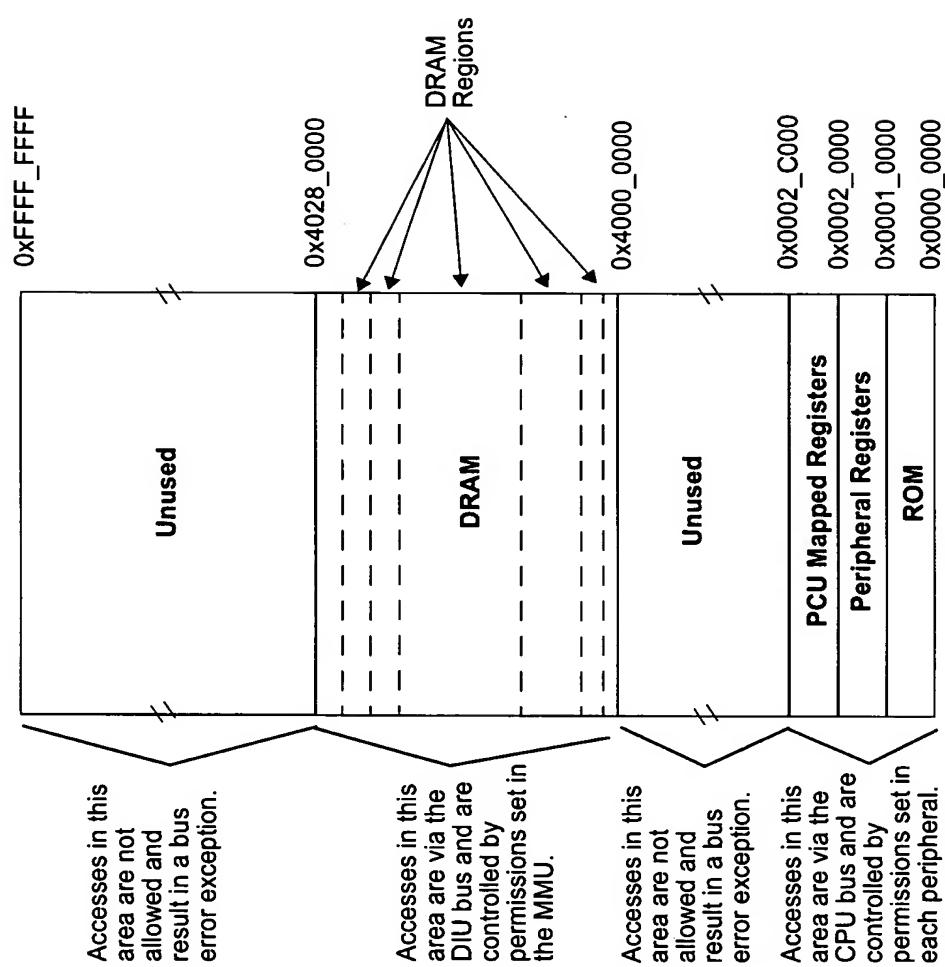


FIG. 18

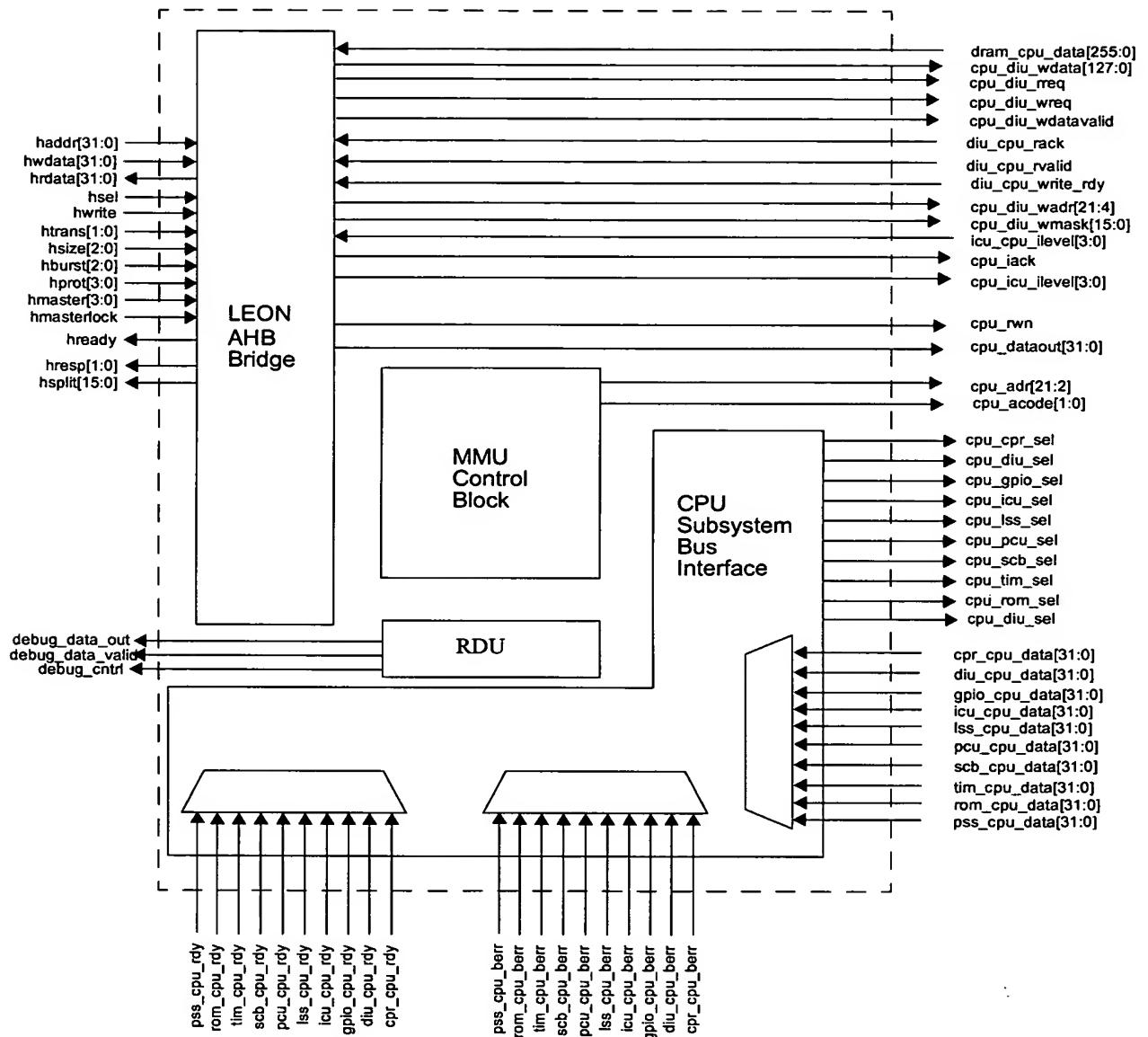


FIG. 19

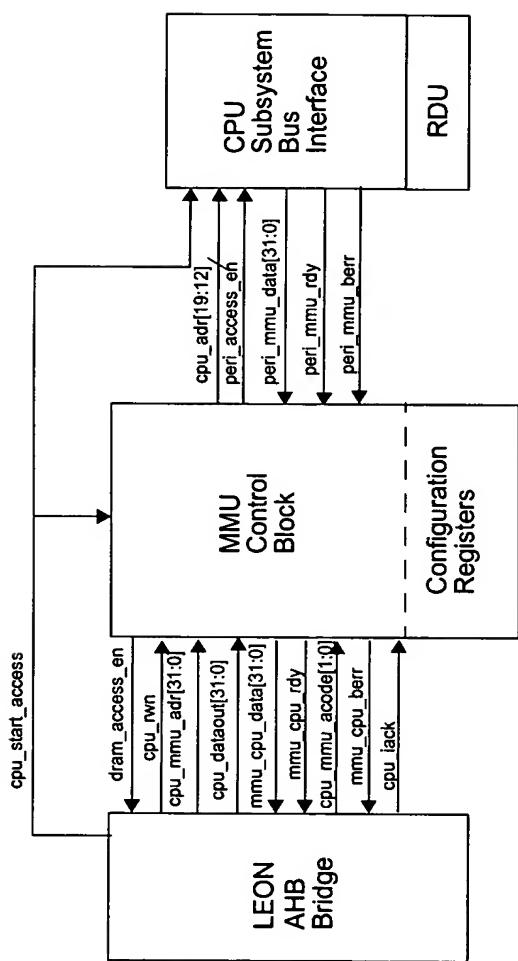
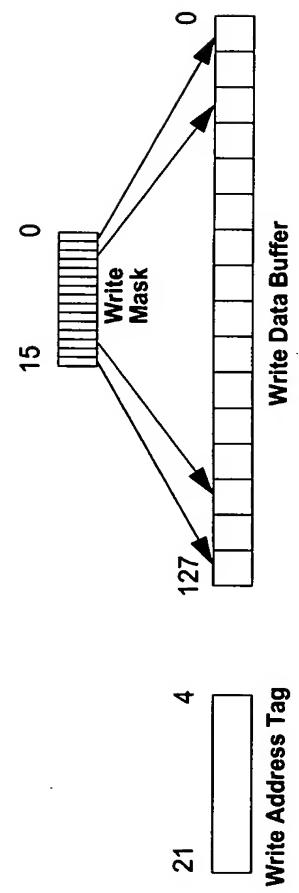


FIG. 20



Write Data Buffer

FIG. 21

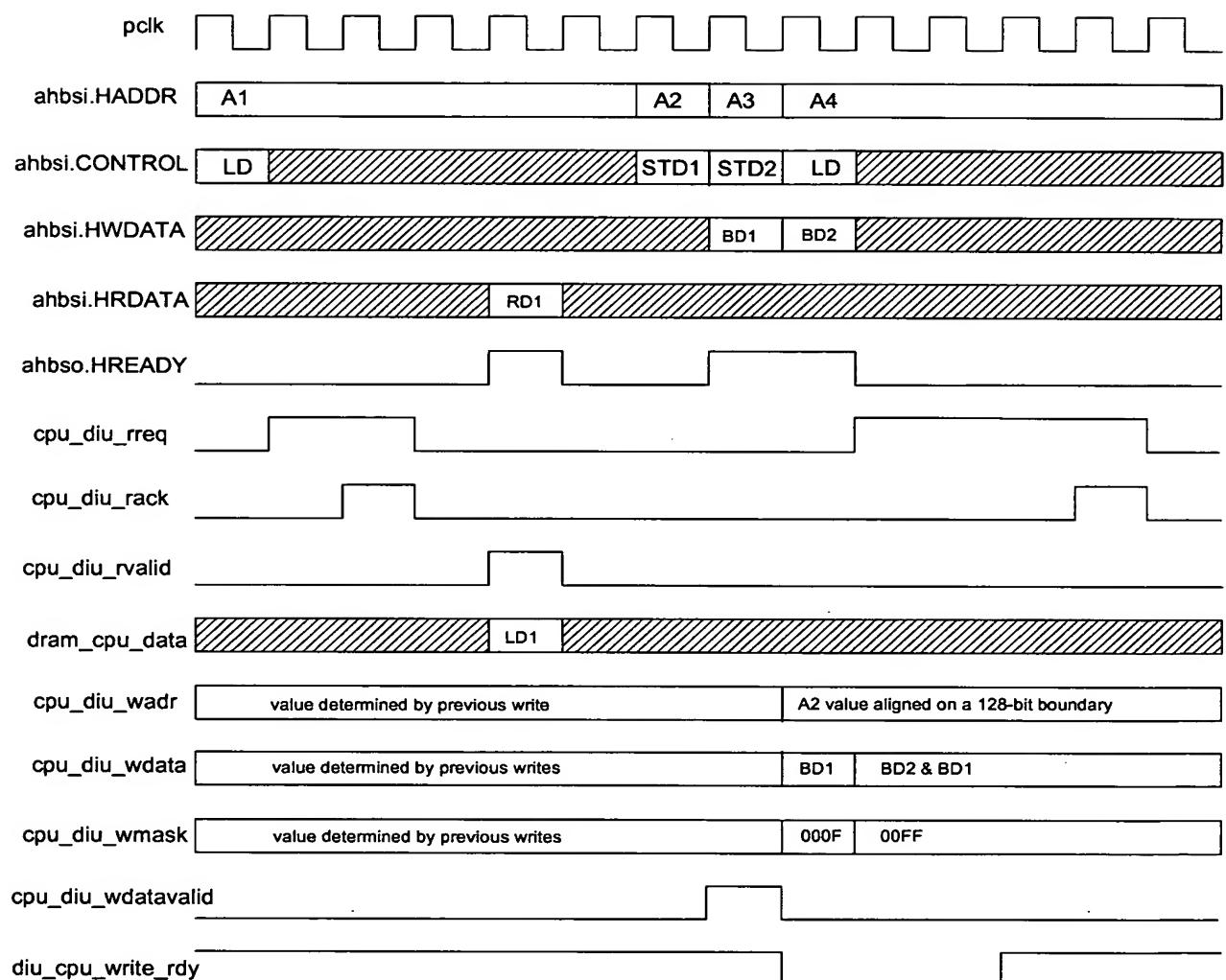


FIG. 22

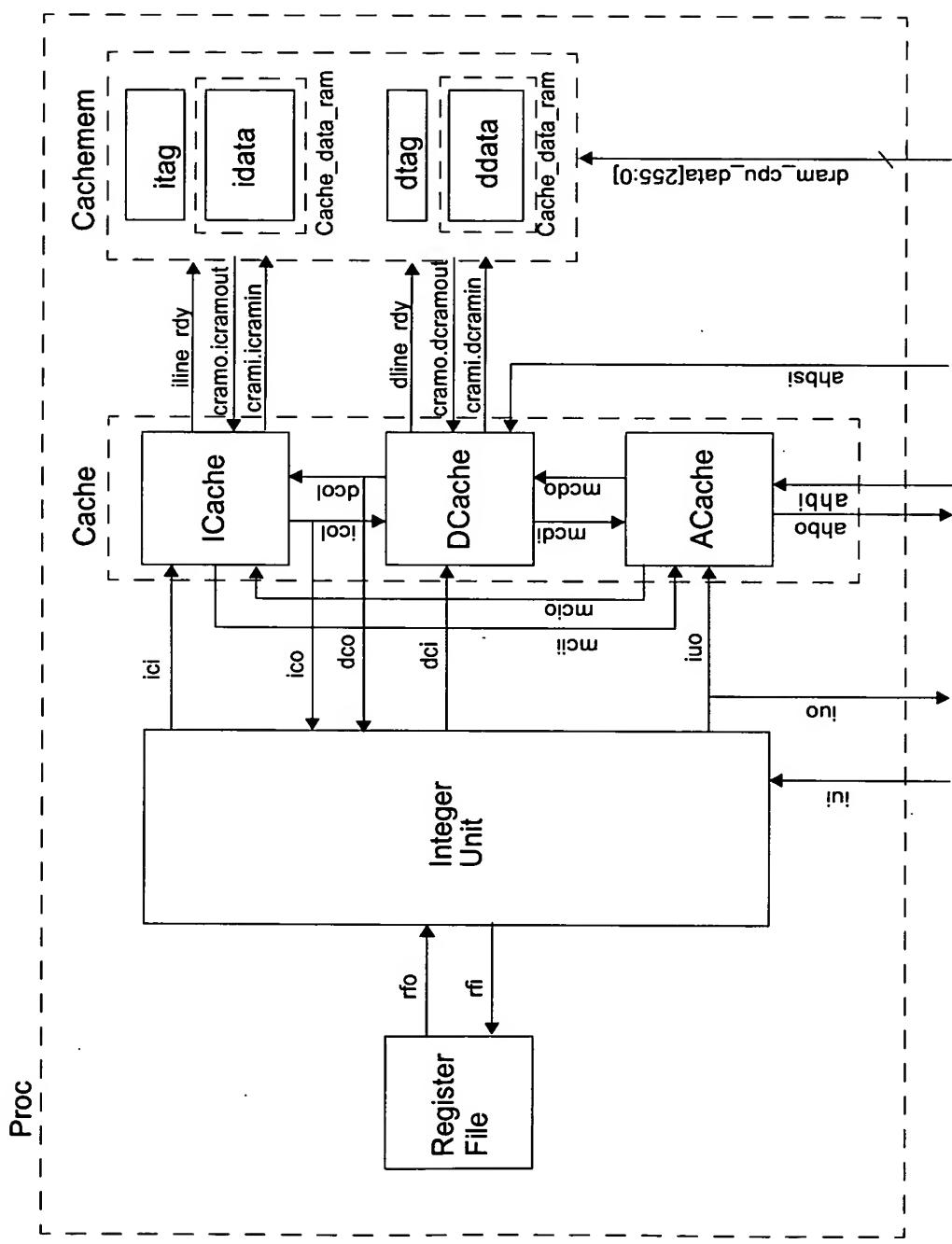
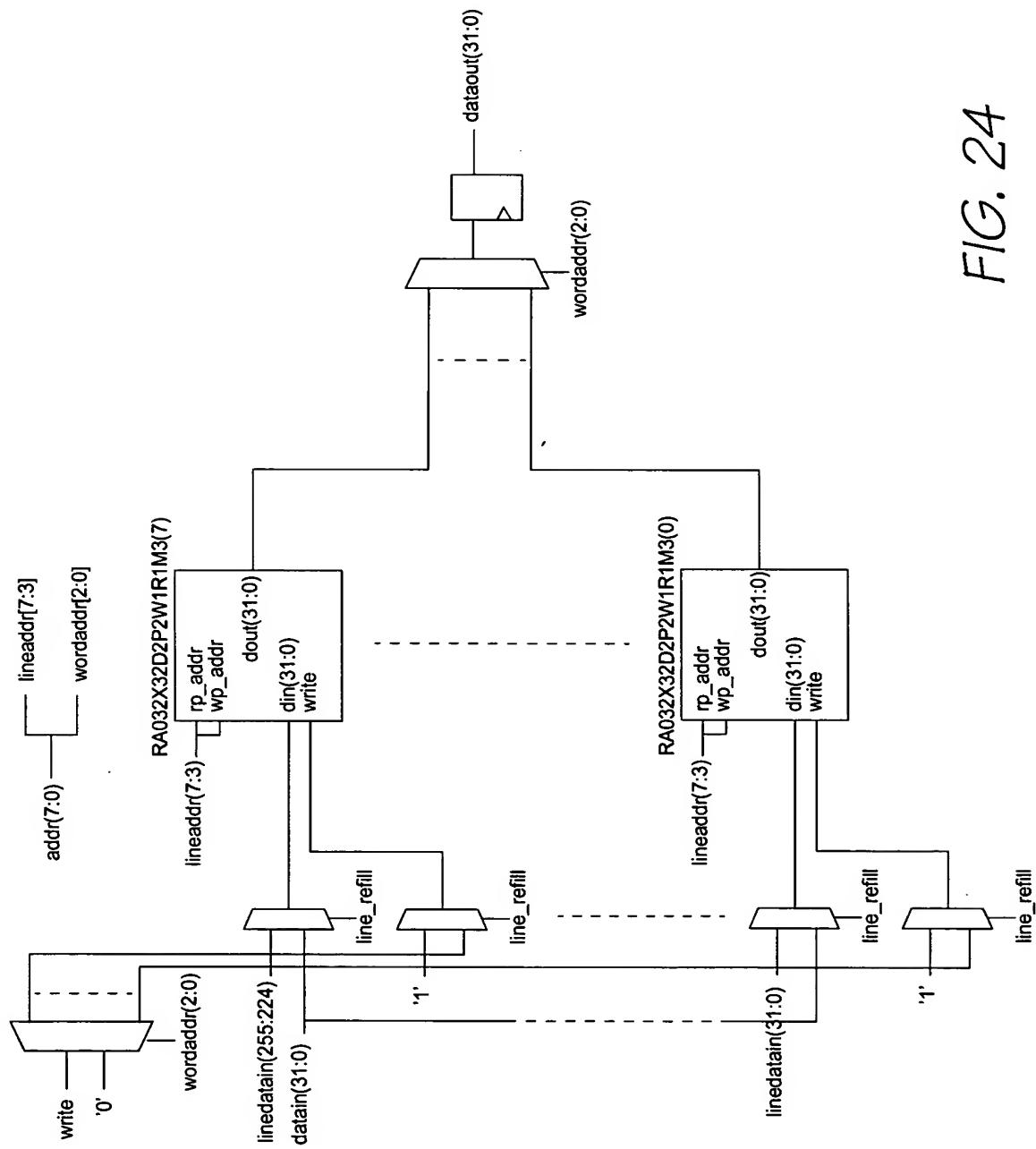
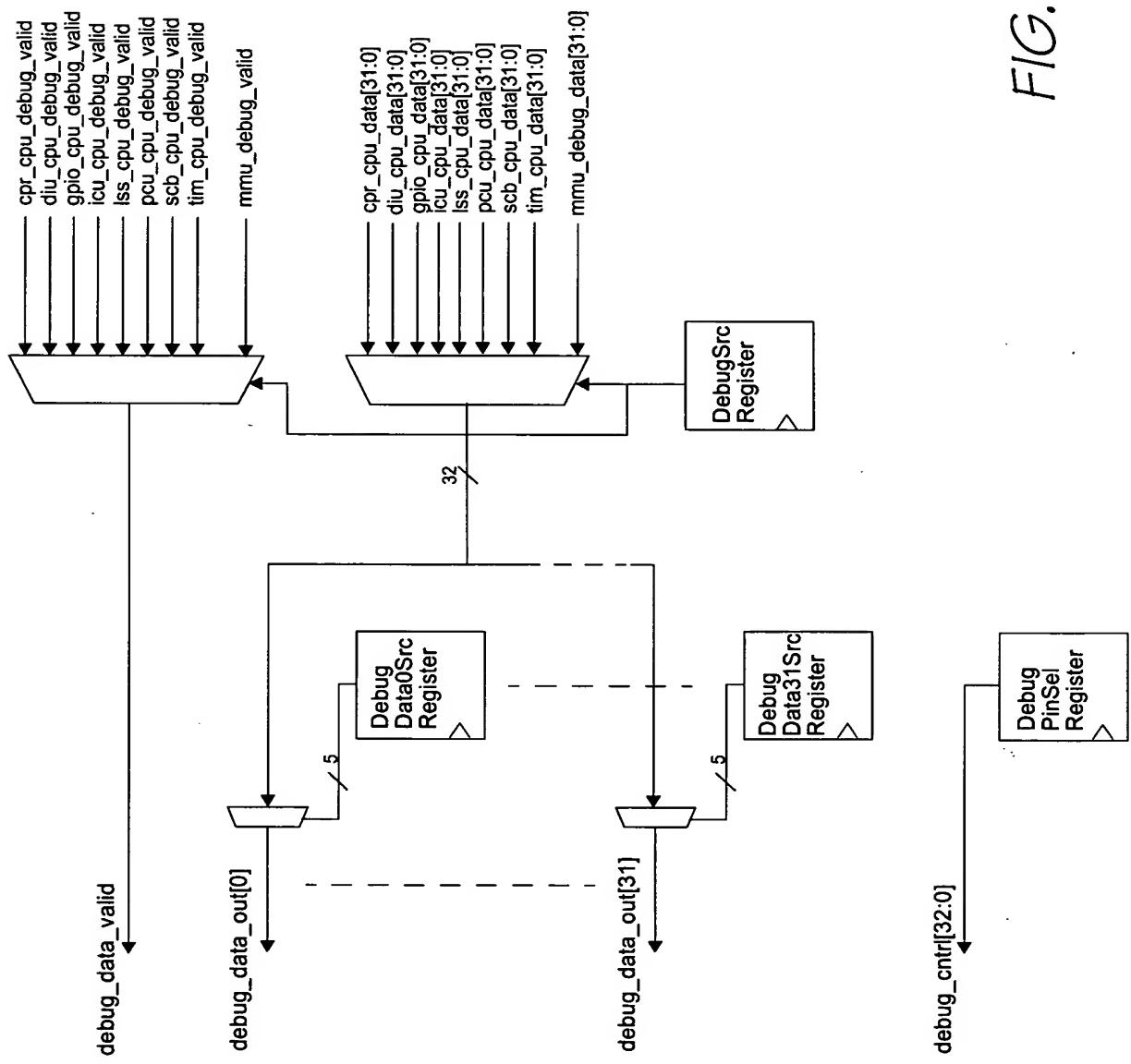


FIG. 23





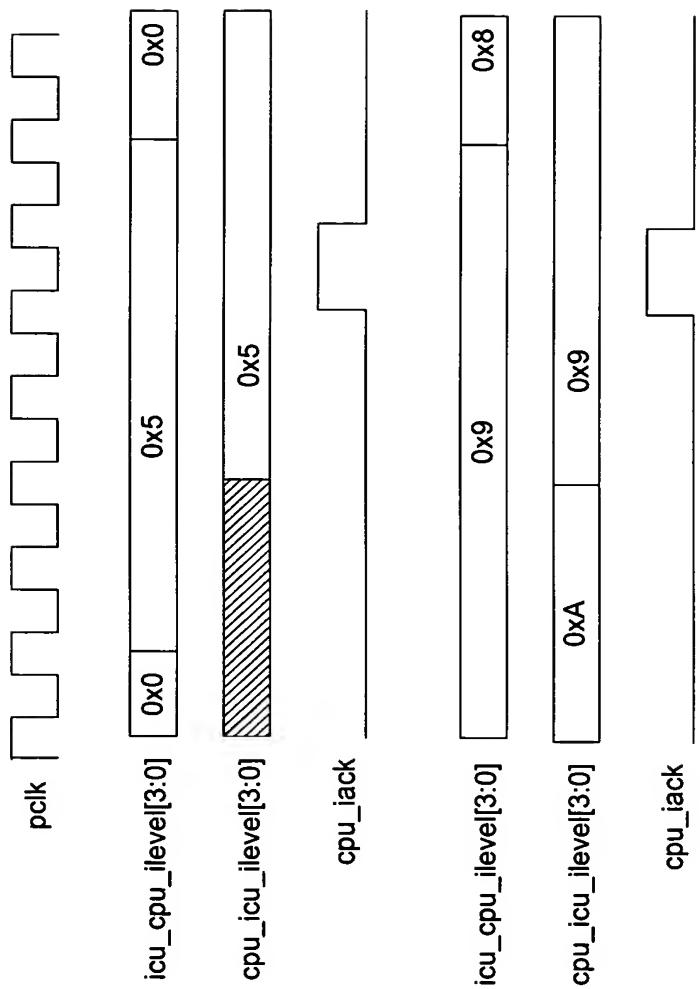


FIG. 26

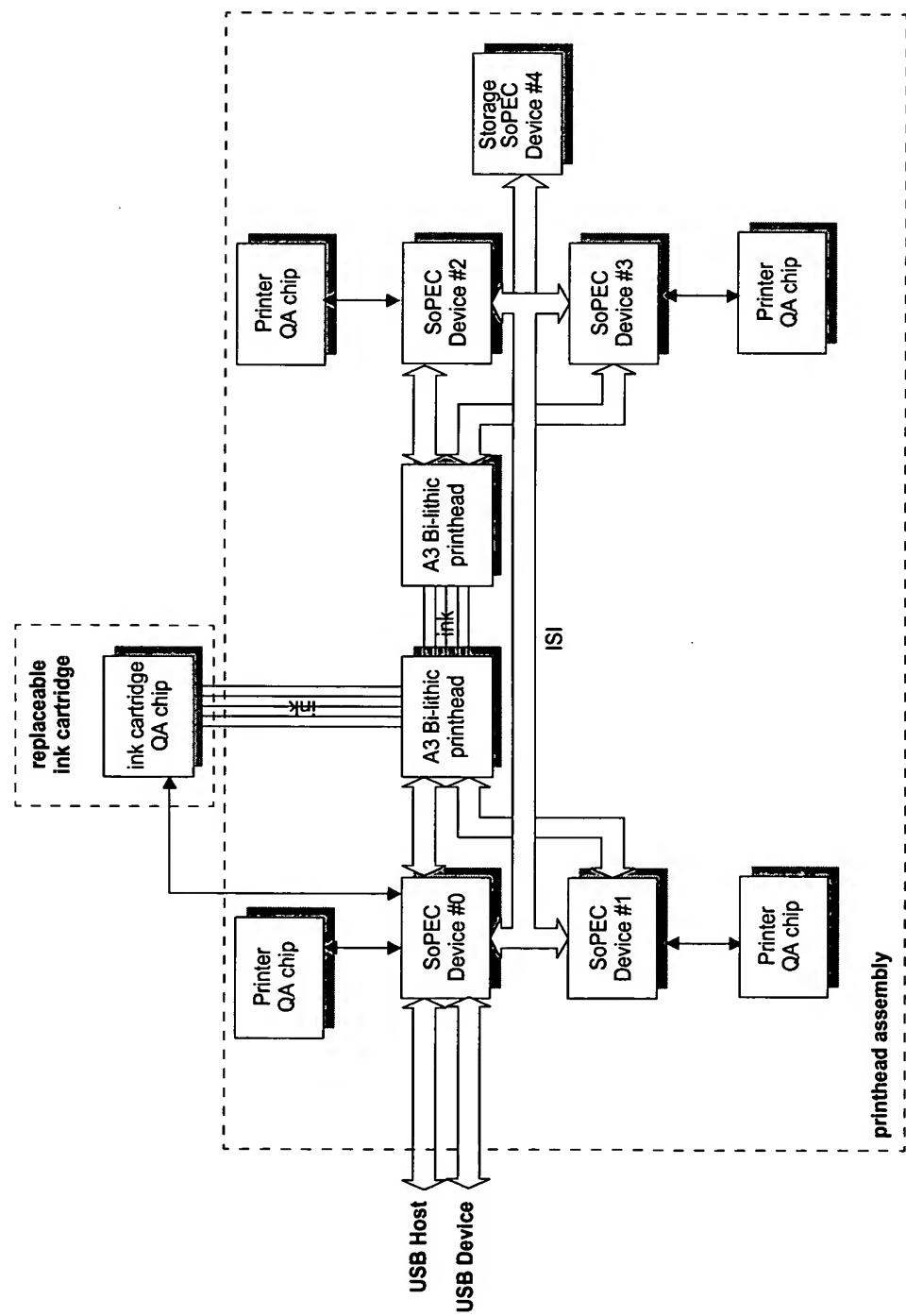


FIG. 27

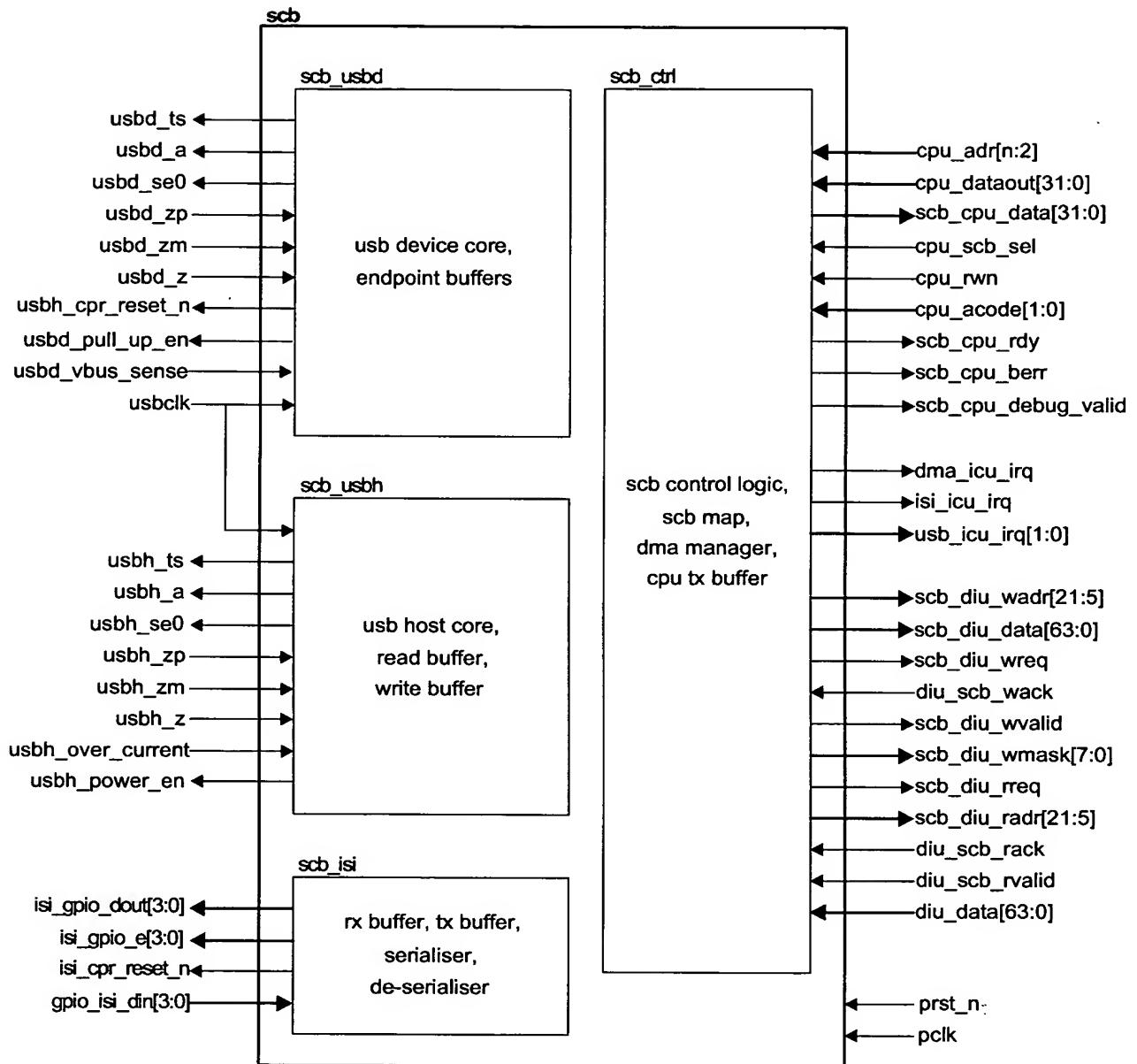


FIG. 28

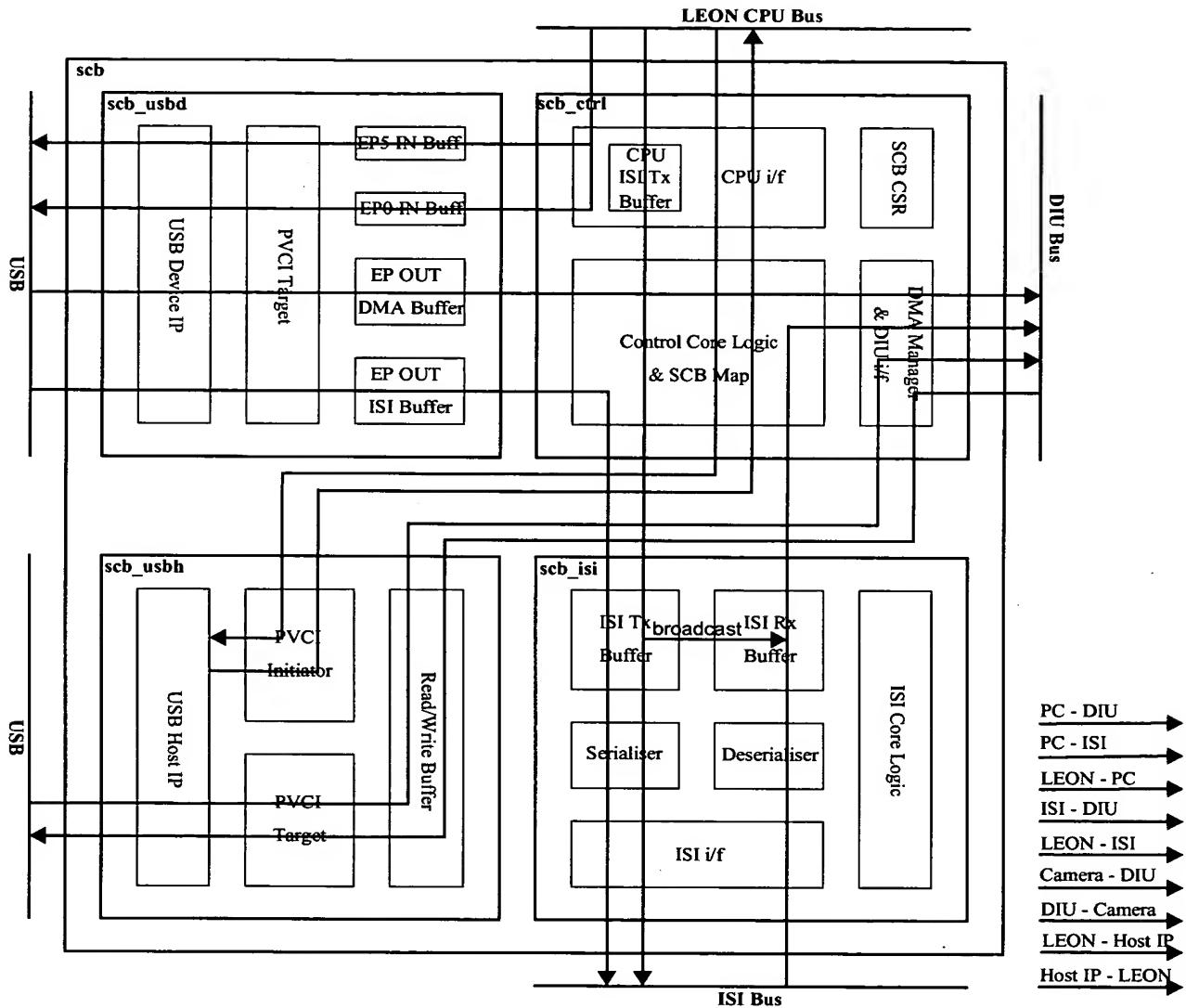


FIG. 29

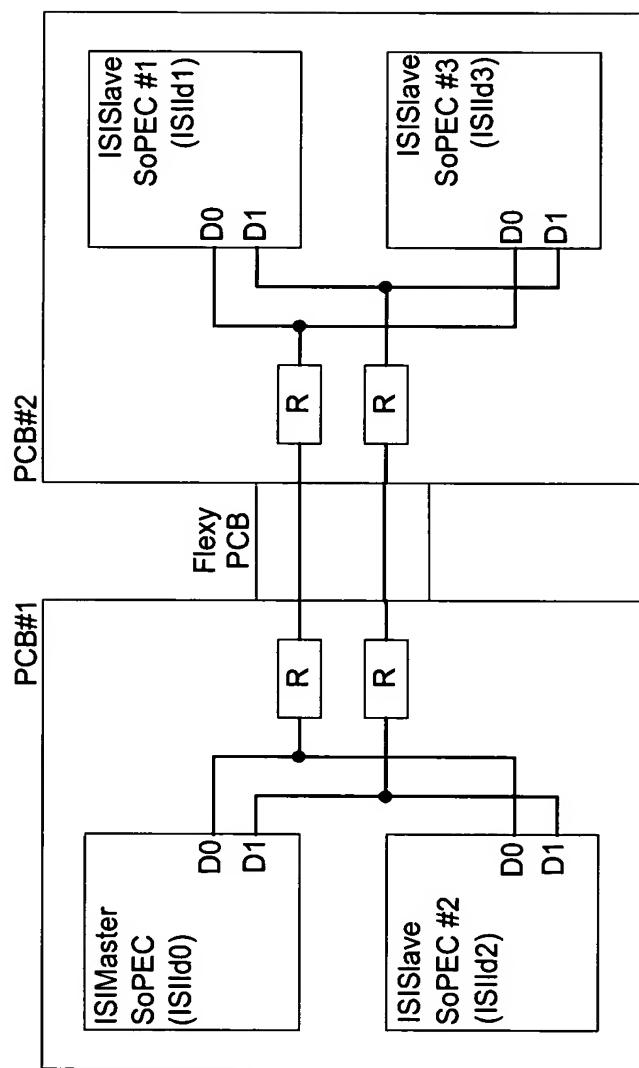


FIG. 30

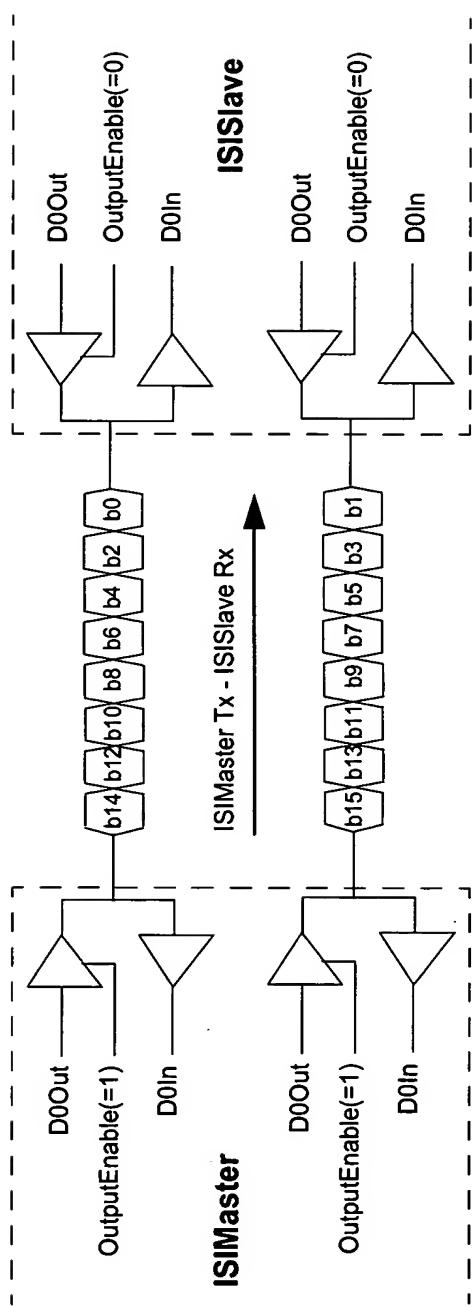
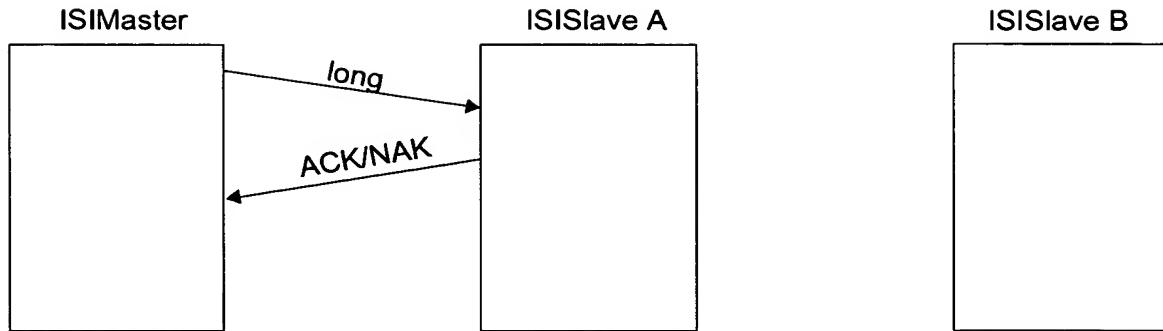
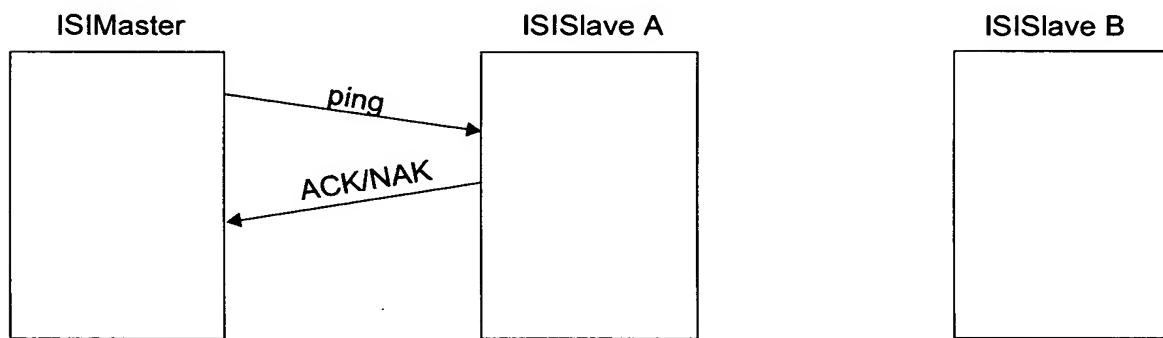


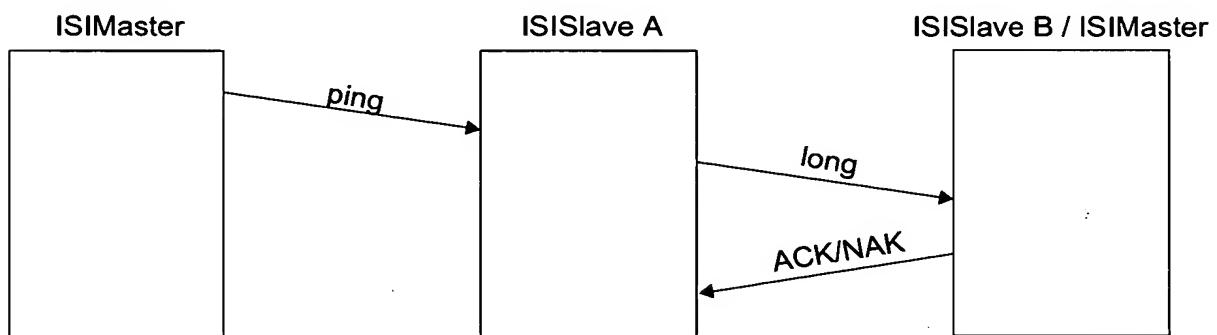
FIG. 31



Transaction 1: Long packet to an addressed ISISSlave



Transaction 2: Ping packet to an addressed ISISSlave. ISISSlave has nothing to send



Transaction 3: Ping packet to an addressed ISISSlave. ISISSlaveA responds with a long packet to ISISSlaveB (or the ISIMaster) and ISISSlaveB (or the ISIMaster) responds with an ACK or NAK.

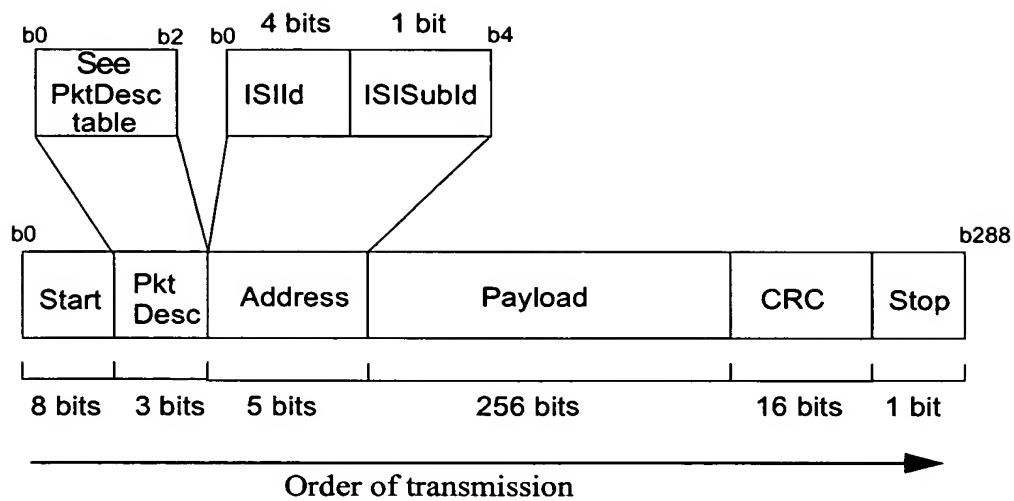


FIG. 33

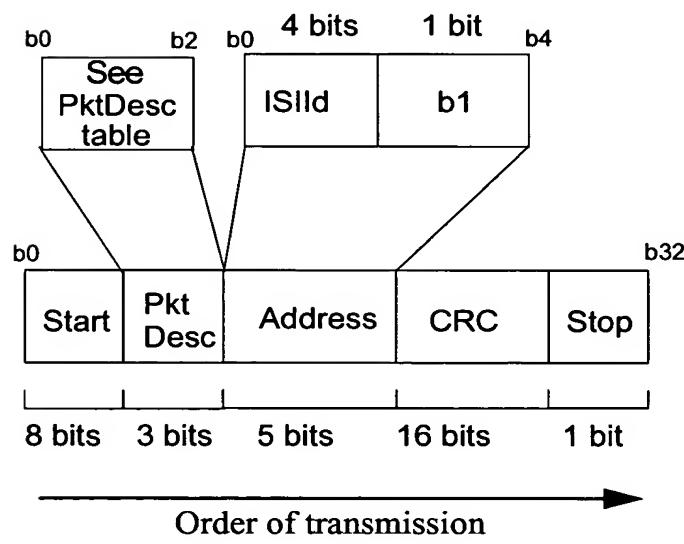


FIG. 34

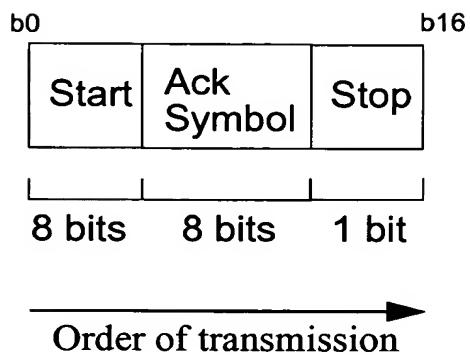


FIG. 35

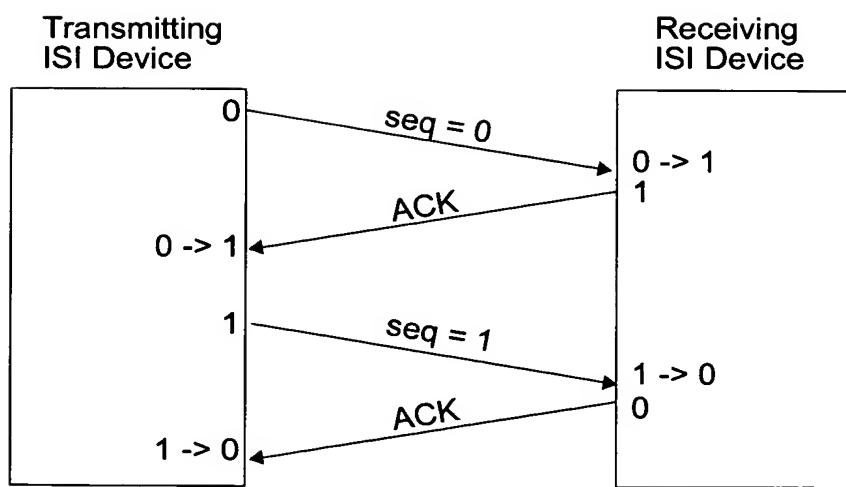


FIG. 36

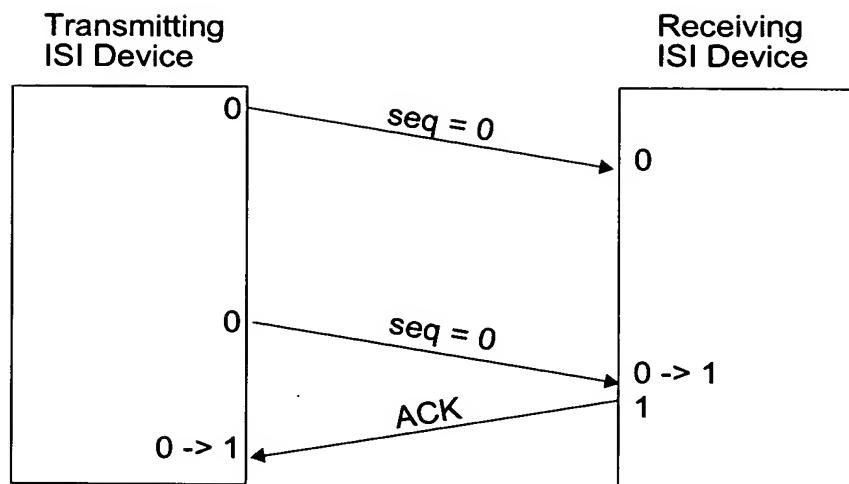


FIG. 37

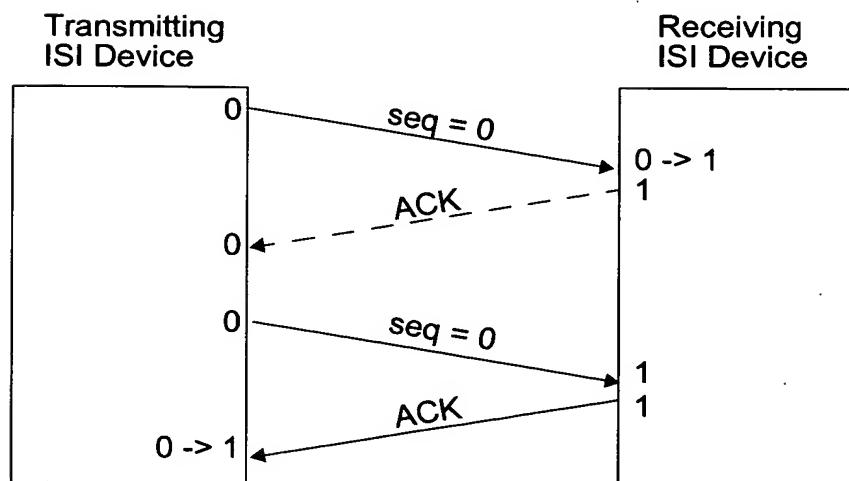


FIG. 38

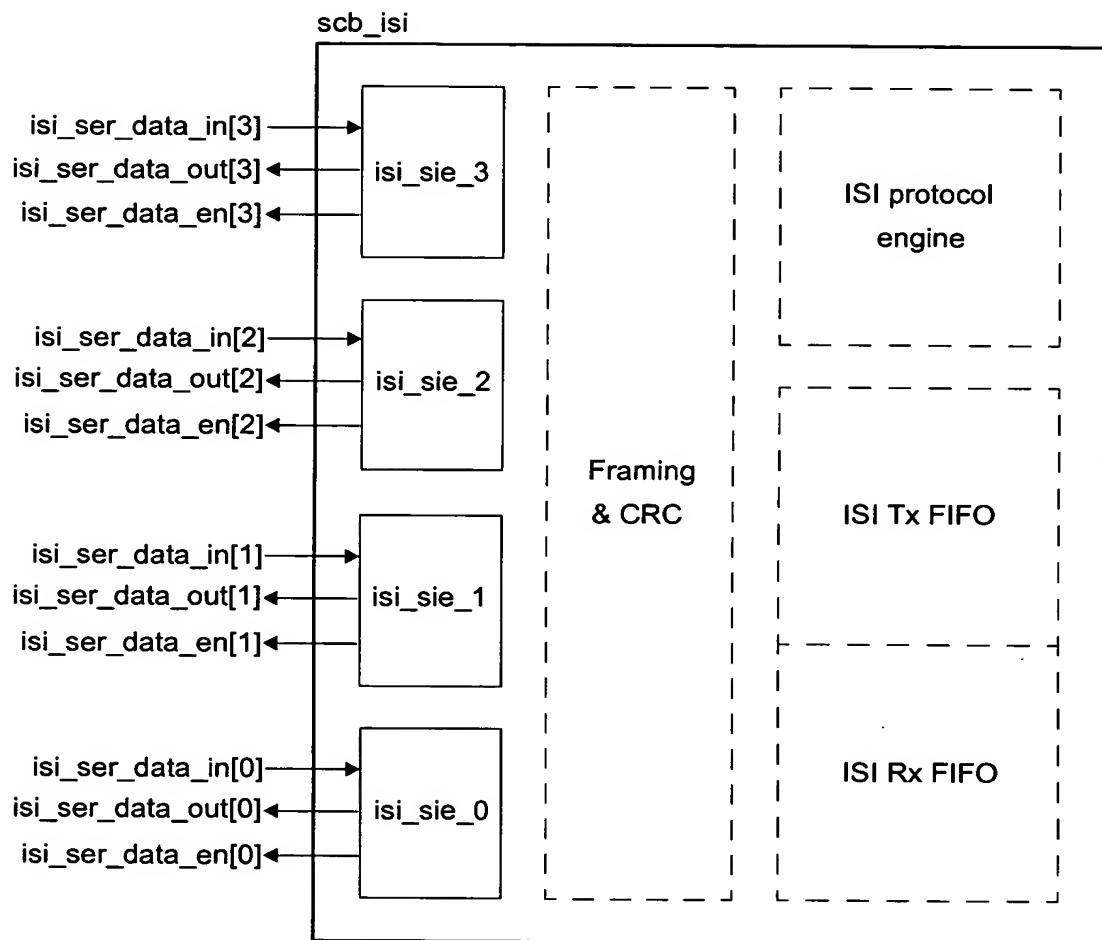


FIG. 39

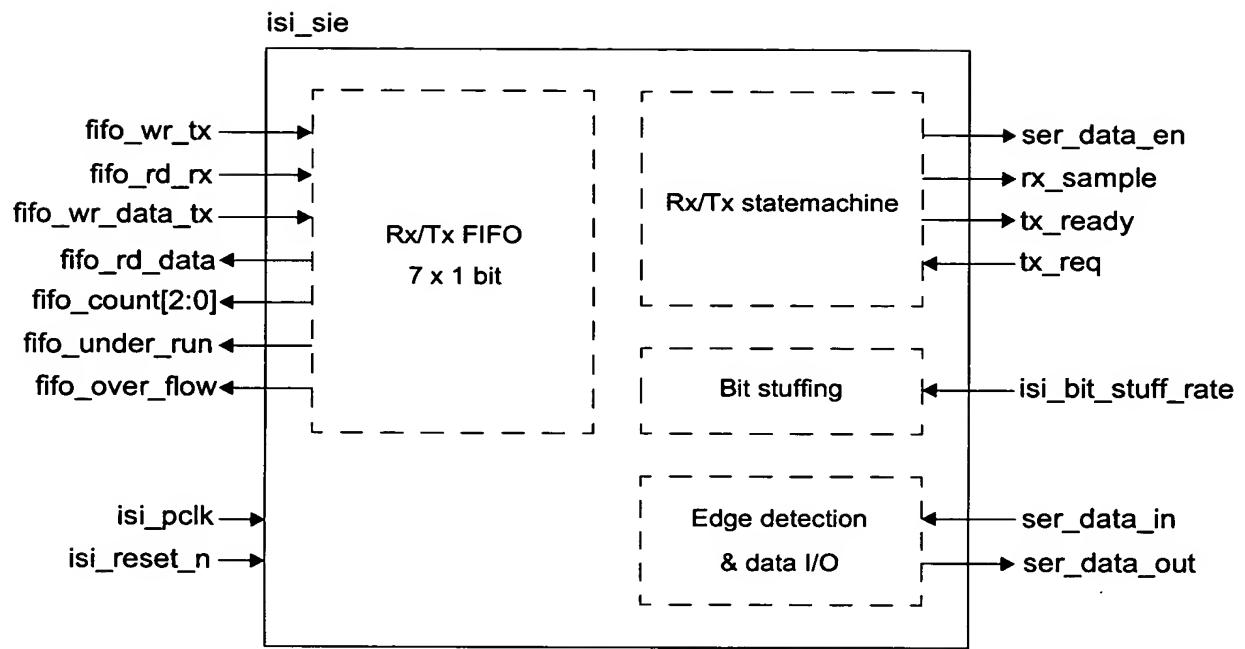


FIG. 40

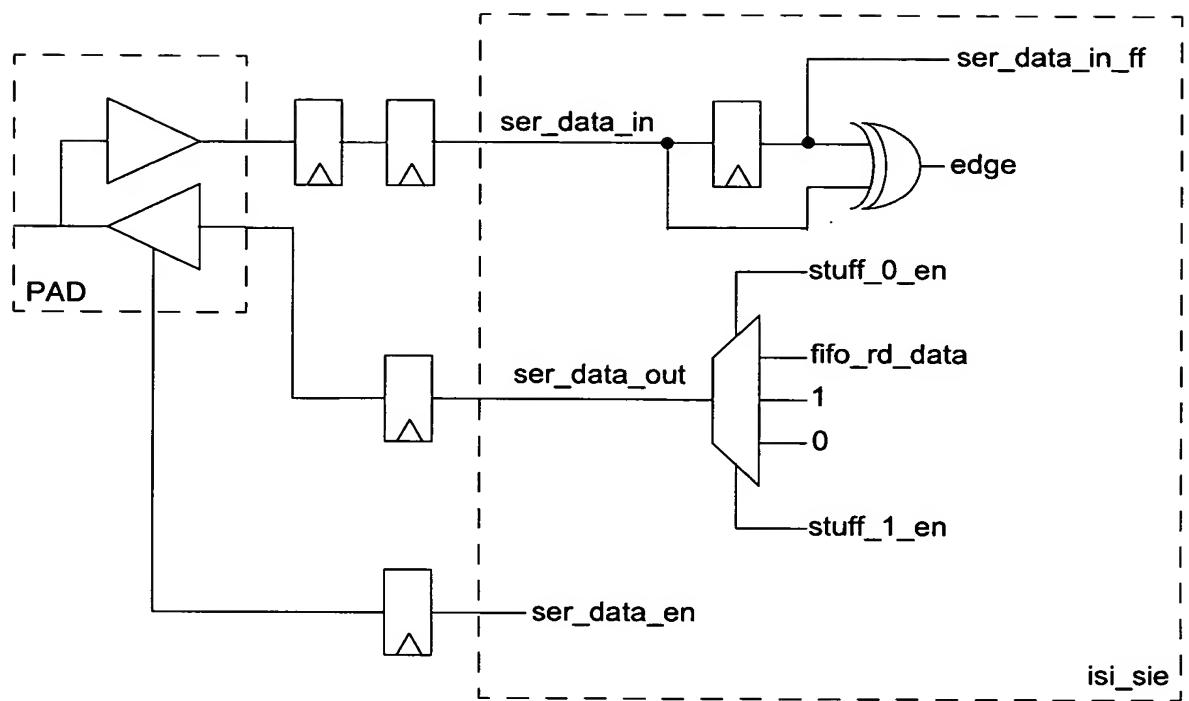


FIG. 41

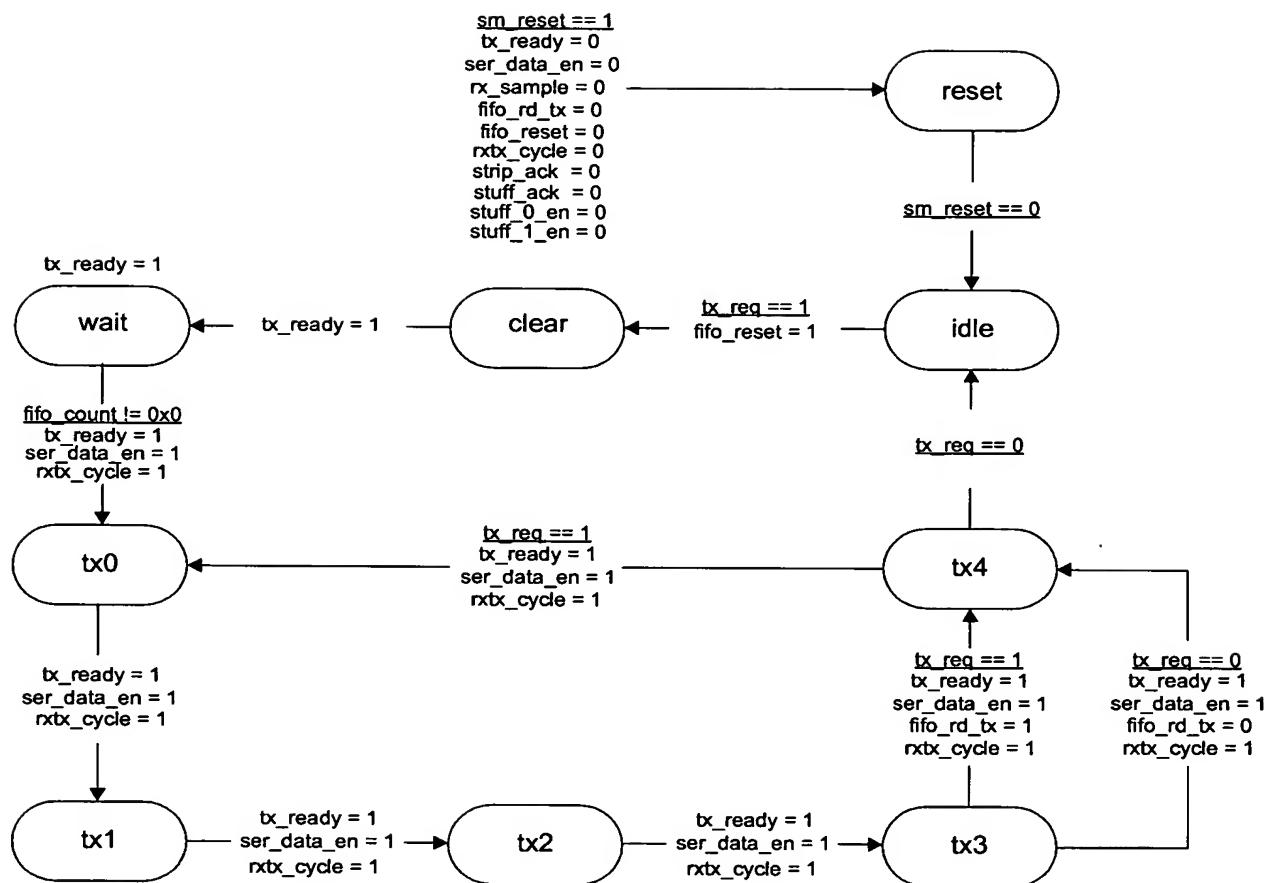


FIG. 42

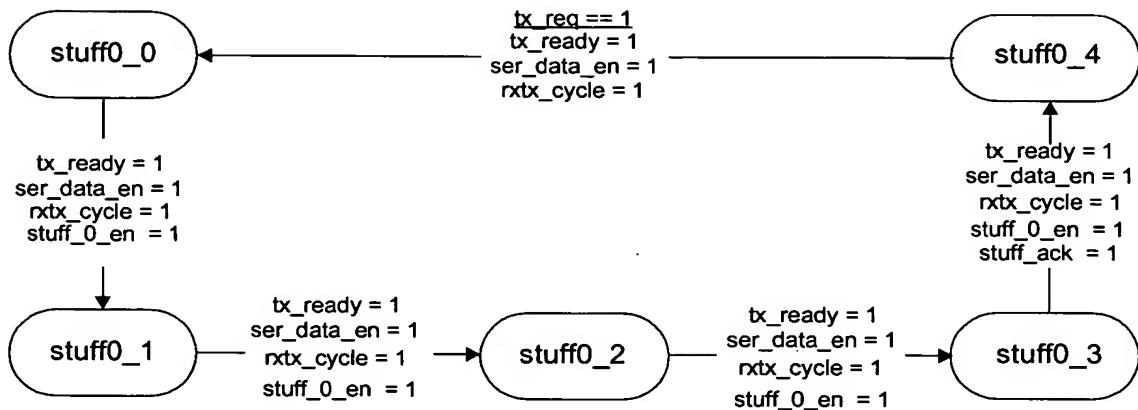


FIG. 43

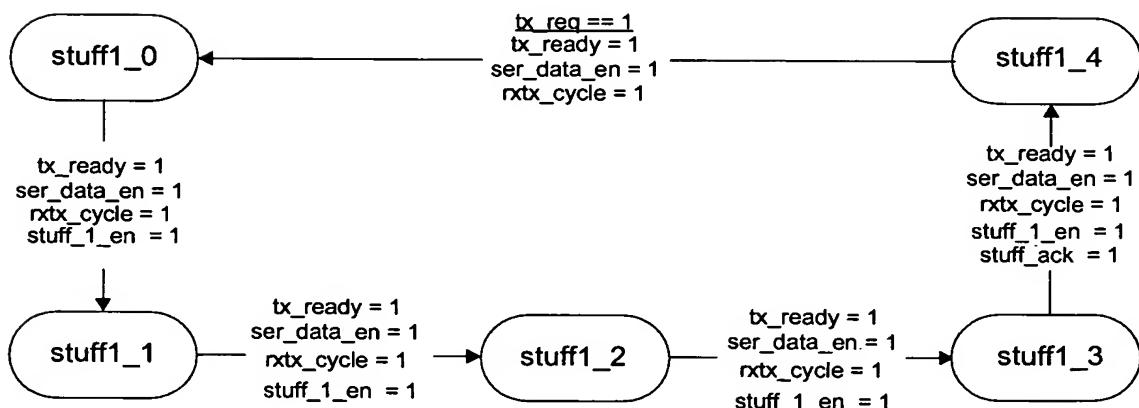


FIG. 44

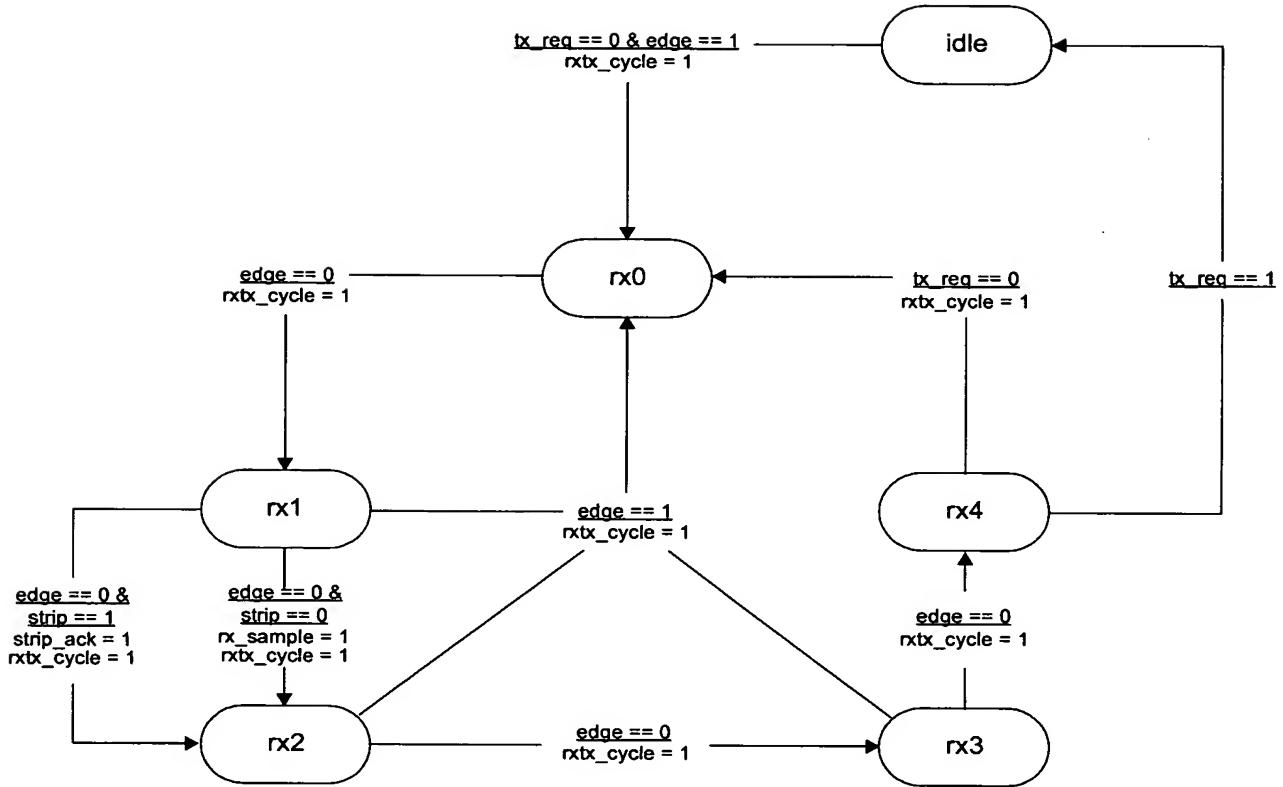


FIG. 45

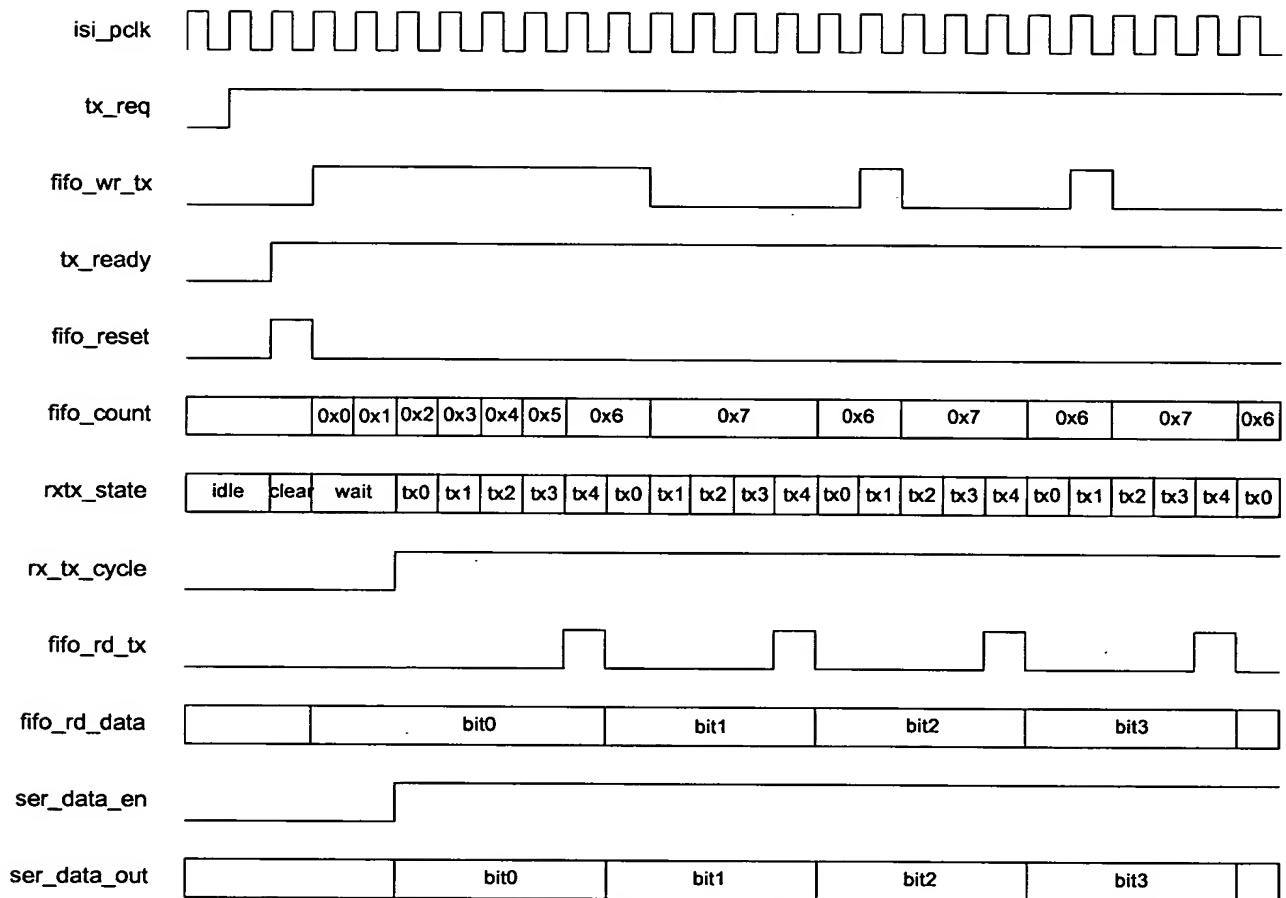


FIG. 46

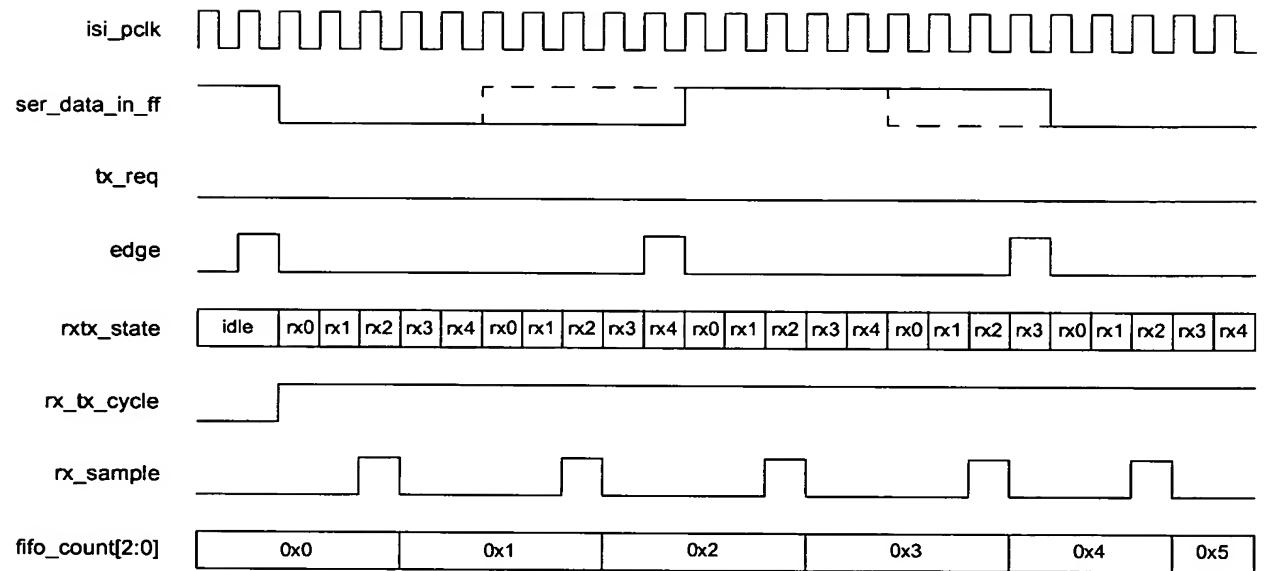


FIG. 47

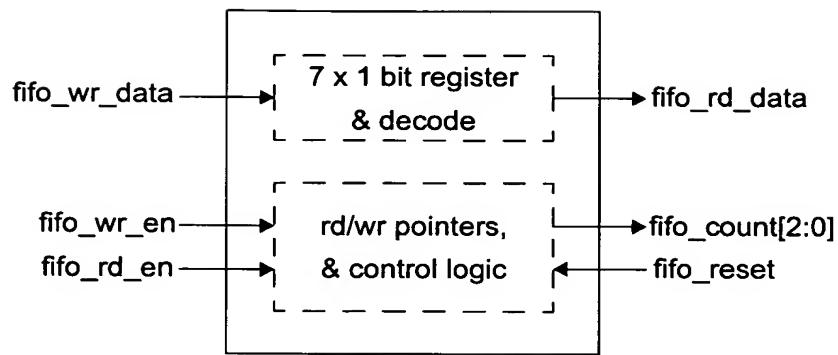


FIG. 48

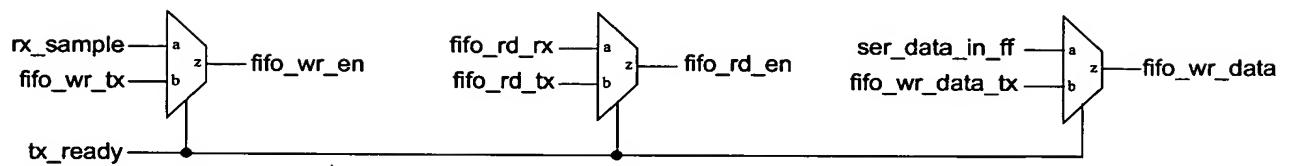


FIG. 49

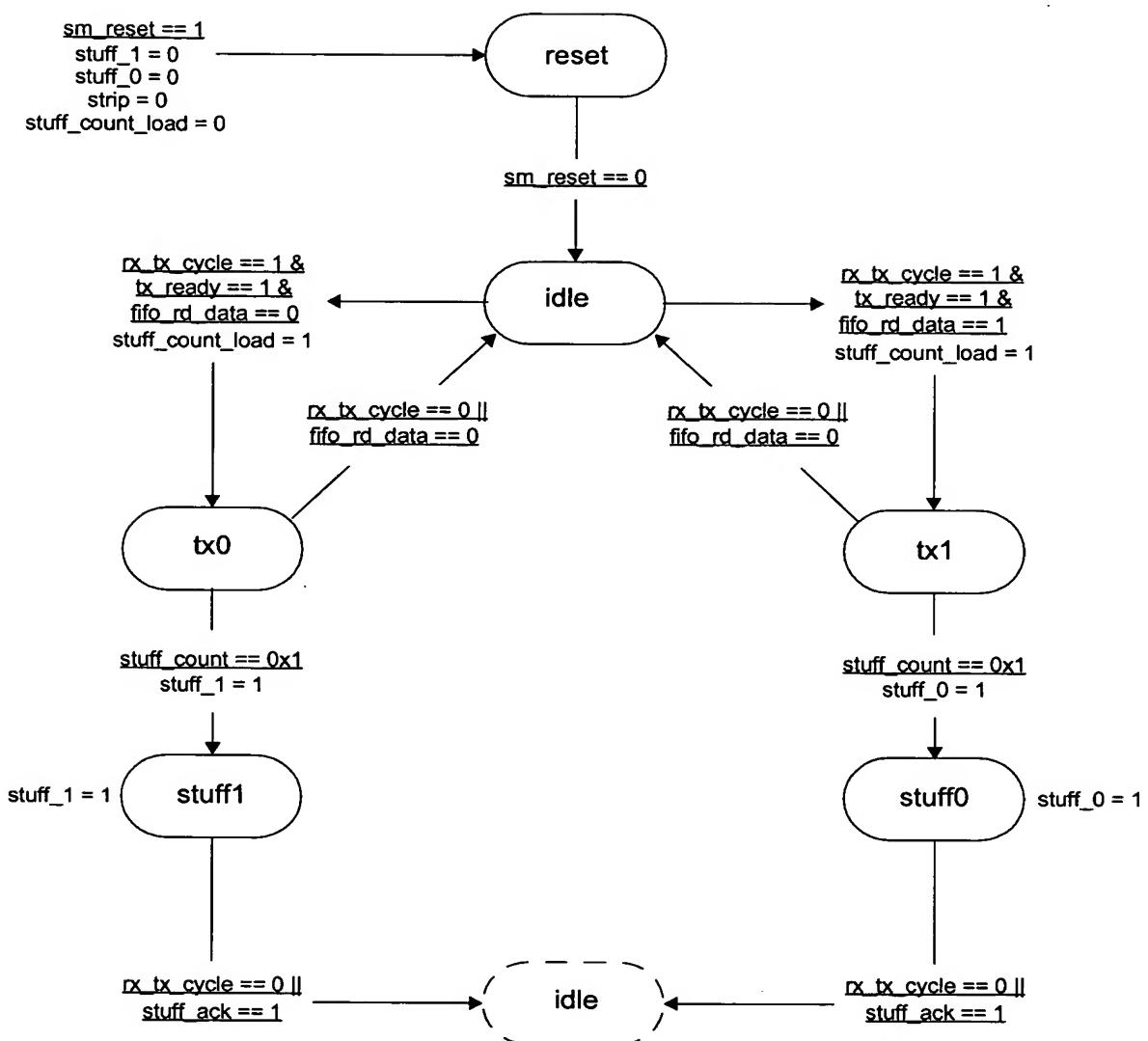


FIG. 50

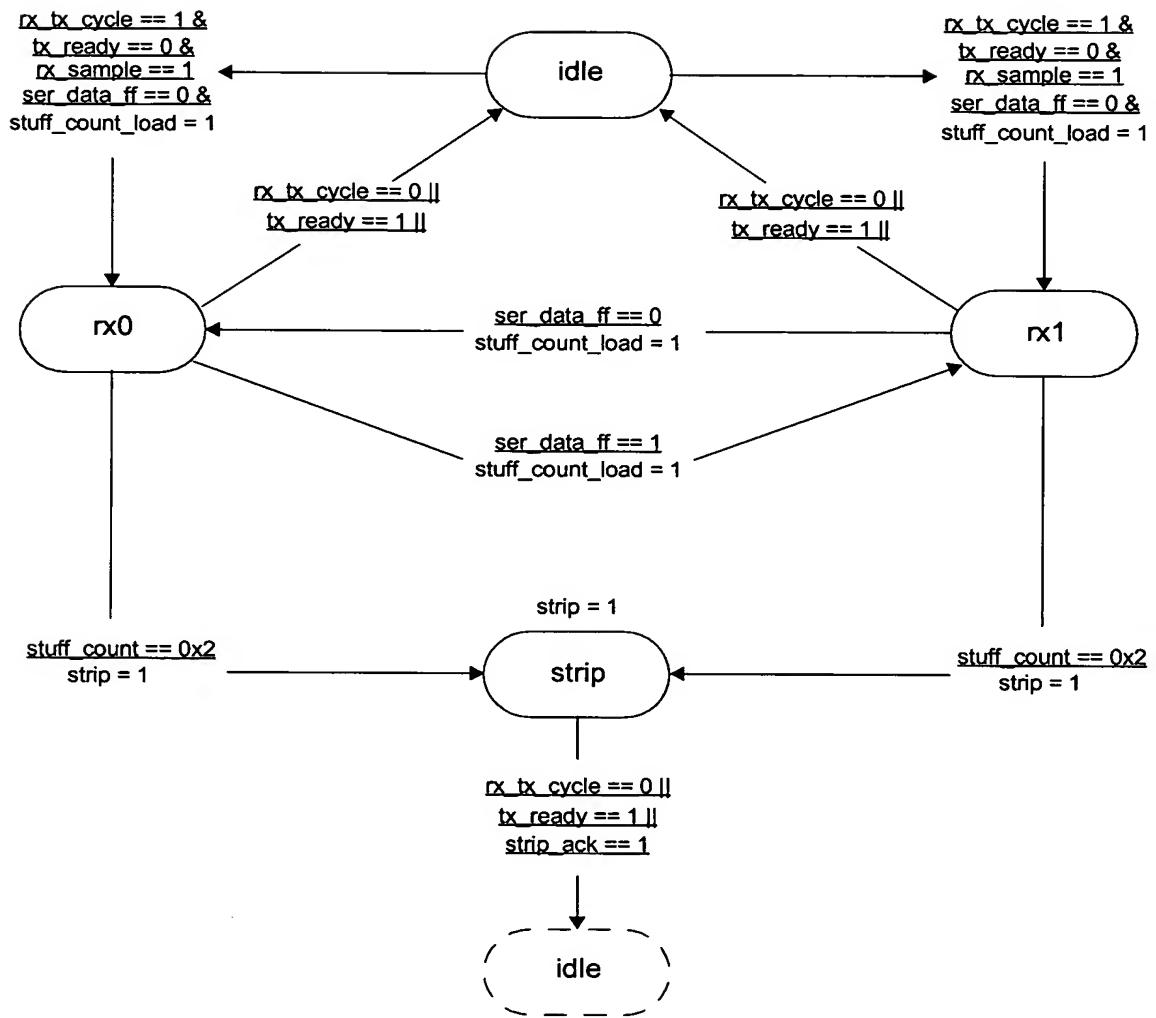


FIG. 51

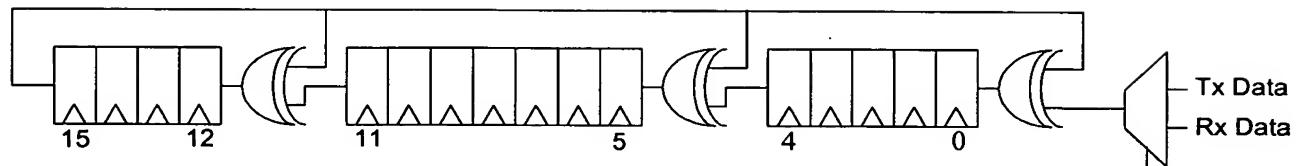


FIG. 52

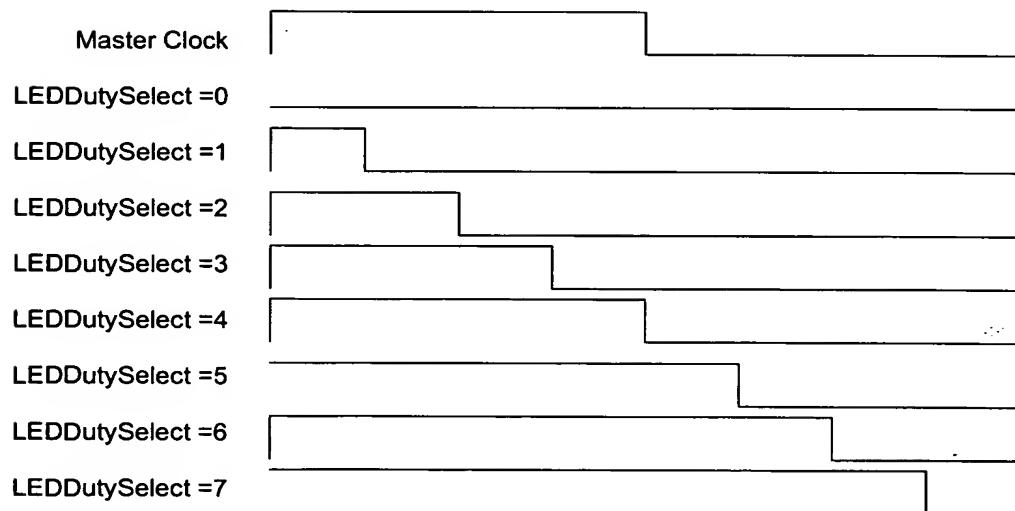


FIG. 54

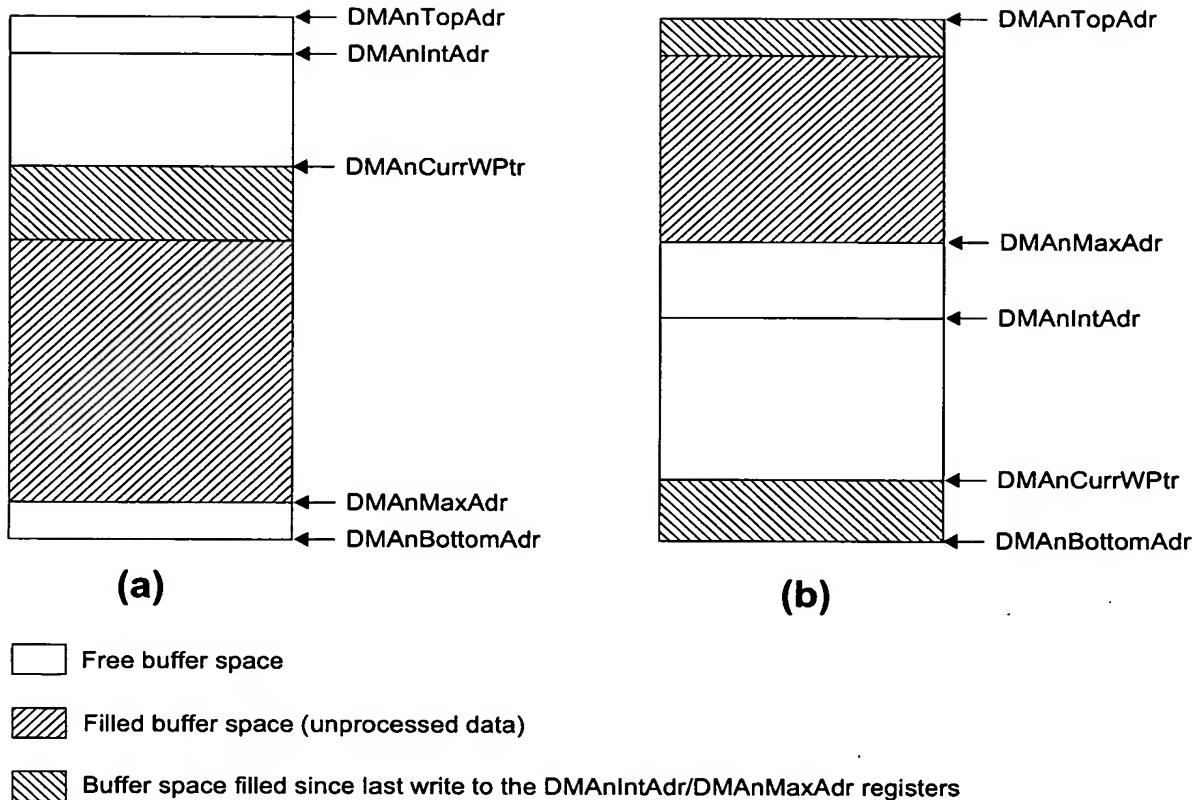


FIG. 53

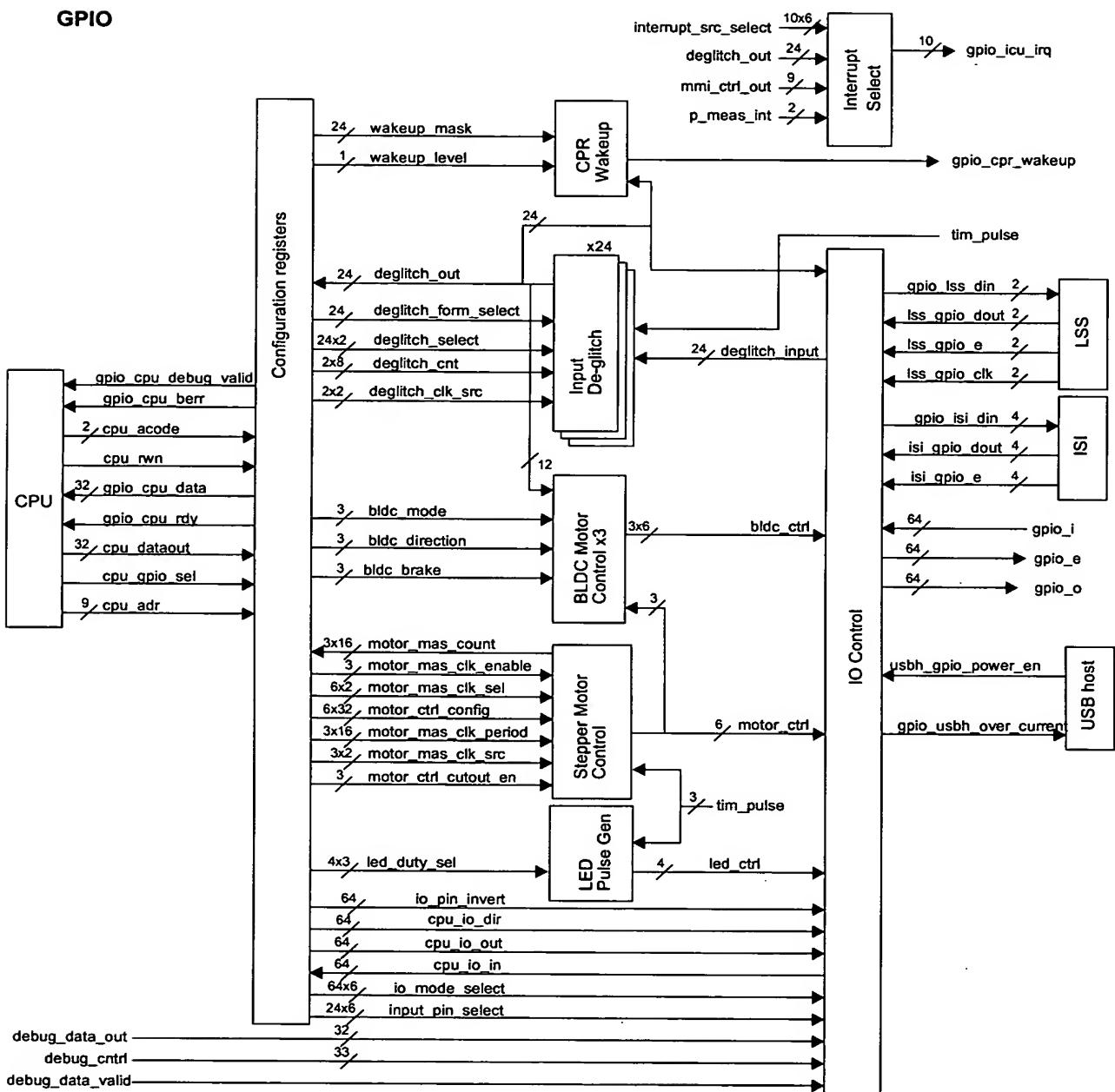


FIG. 55

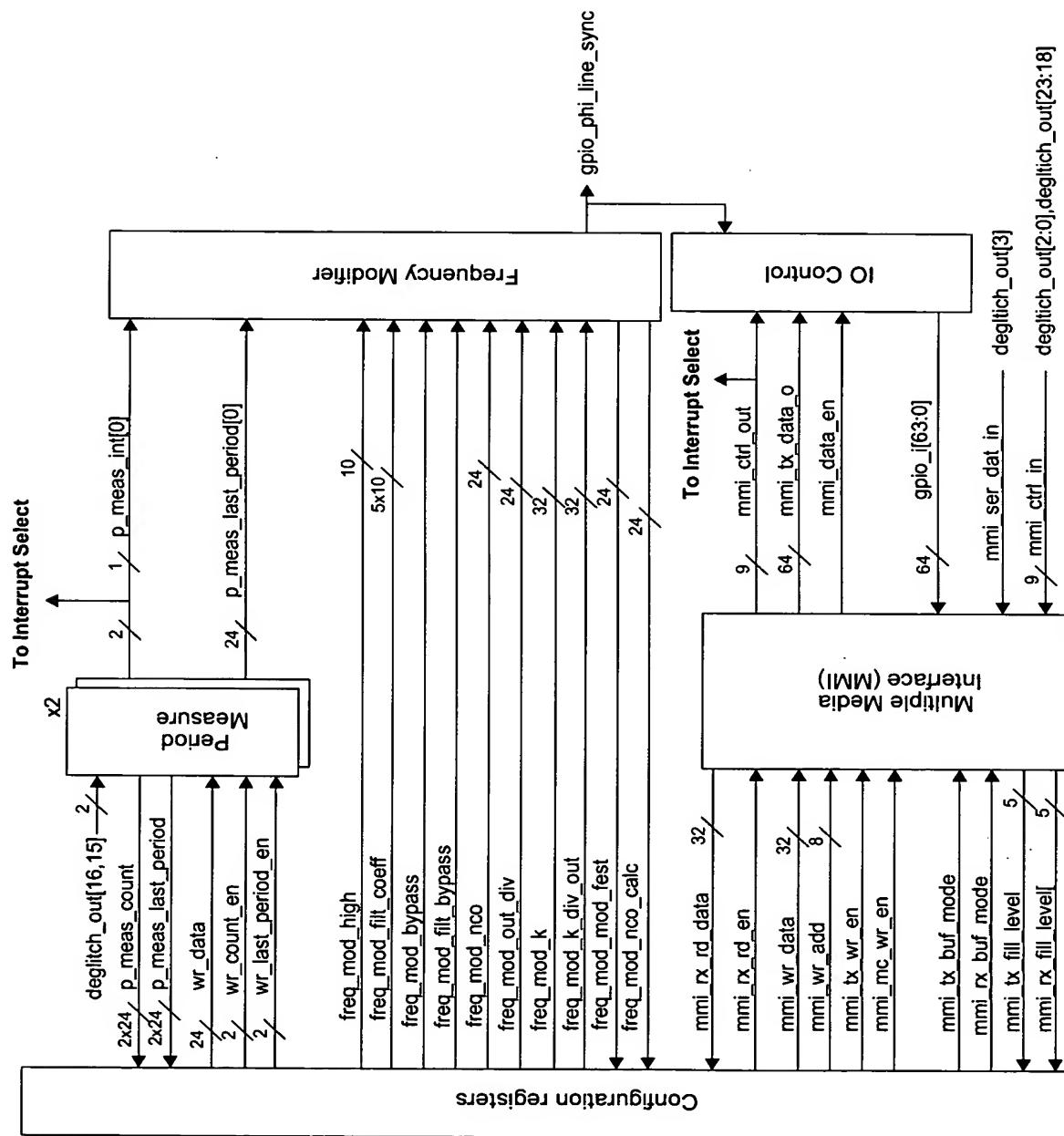


FIG. 56

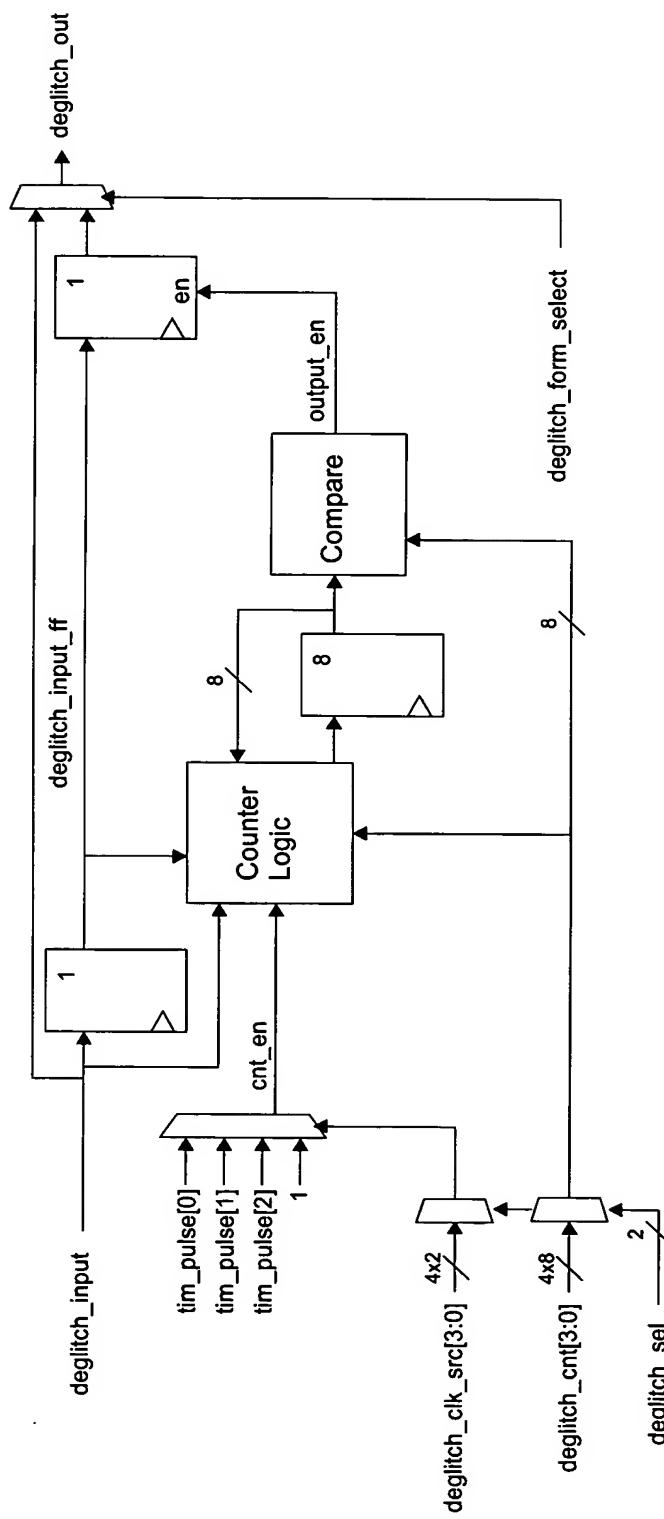


FIG. 57

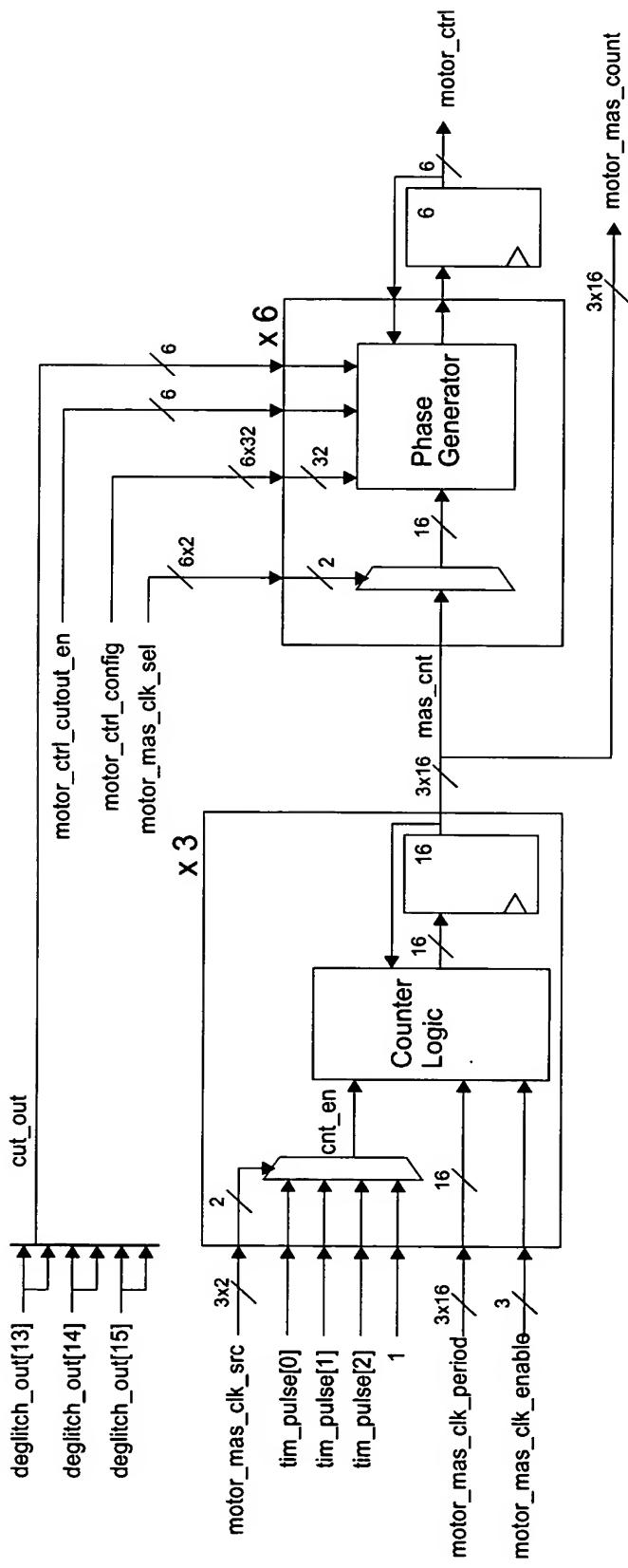


FIG. 58

FIG. 59

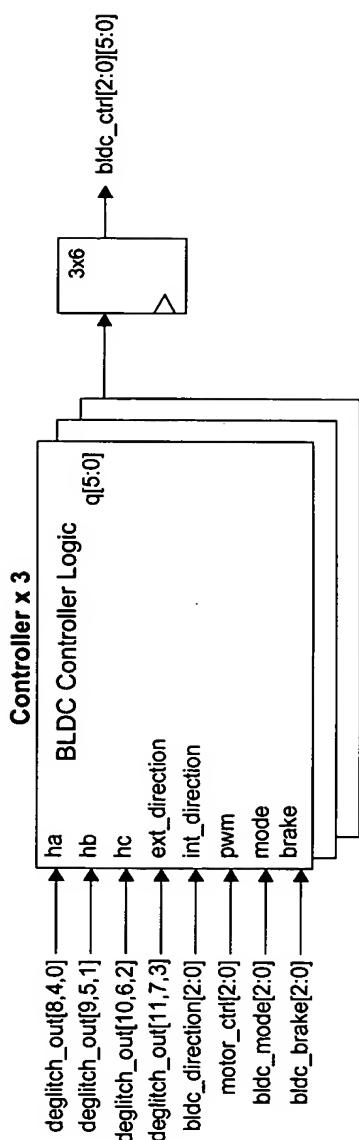
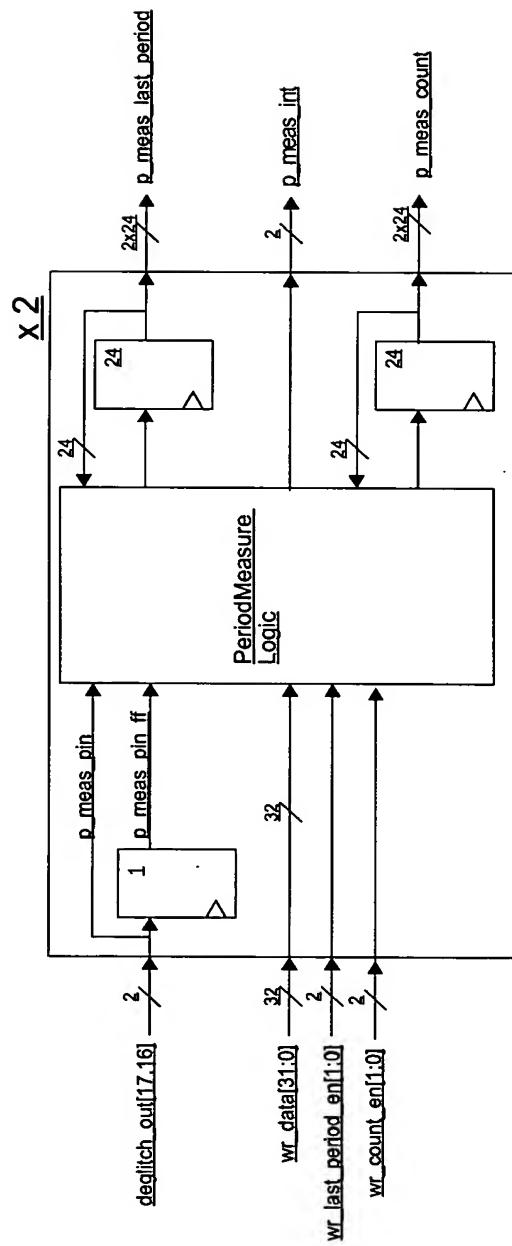


FIG. 60



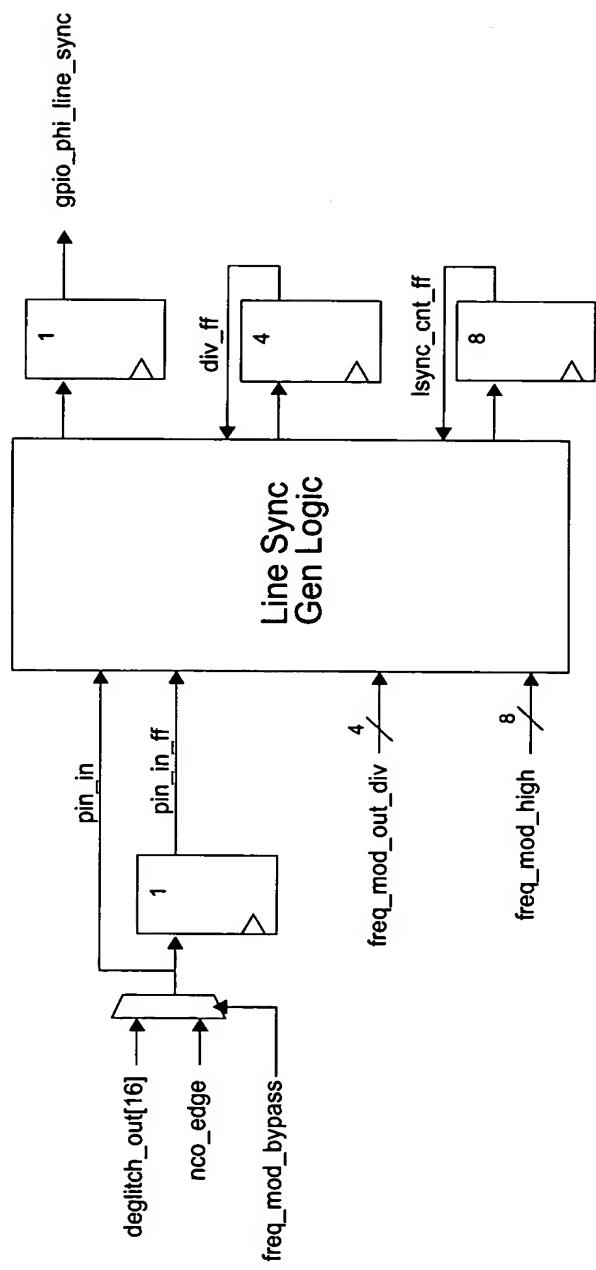


FIG. 61

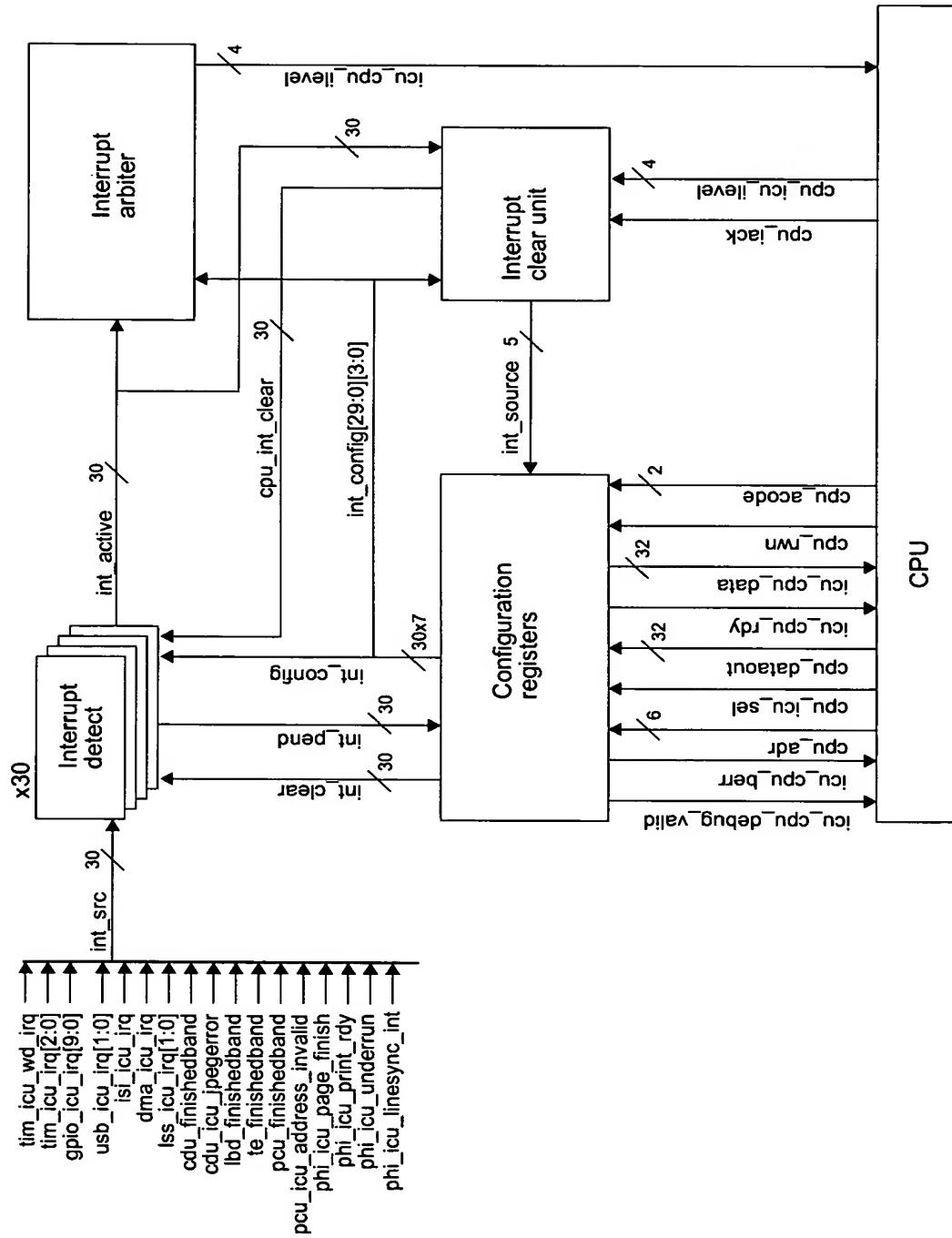


FIG. 62

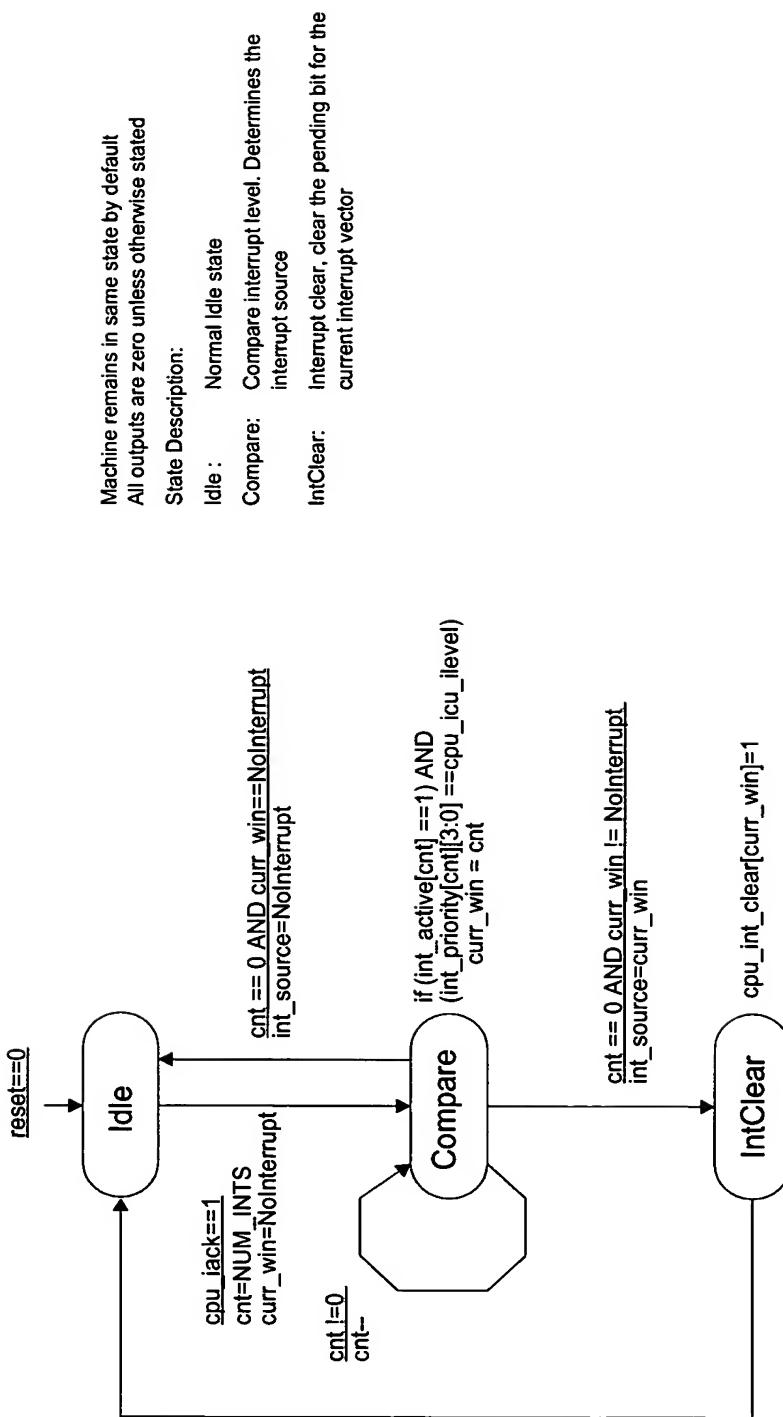


FIG. 63

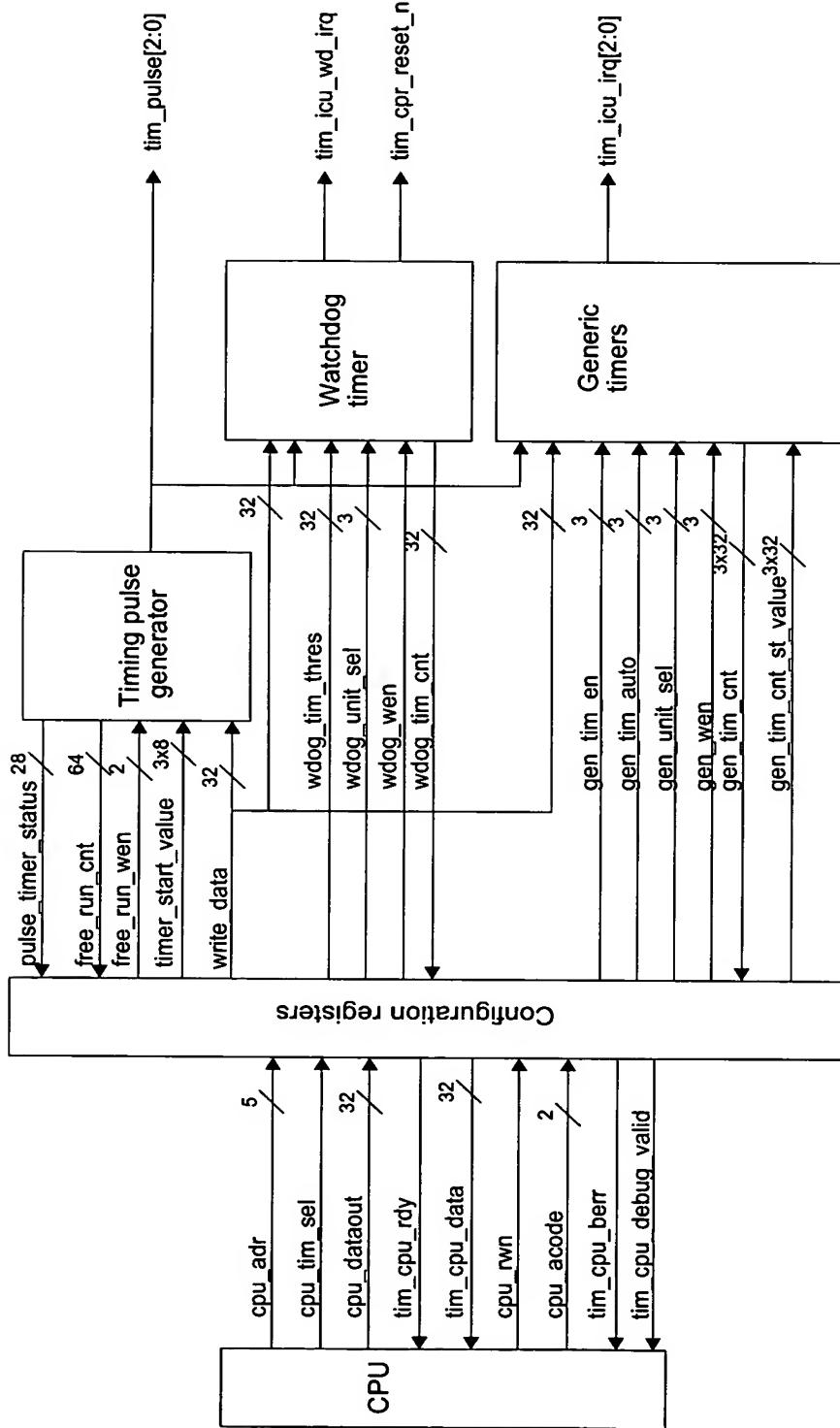


FIG. 63A

FIG. 64

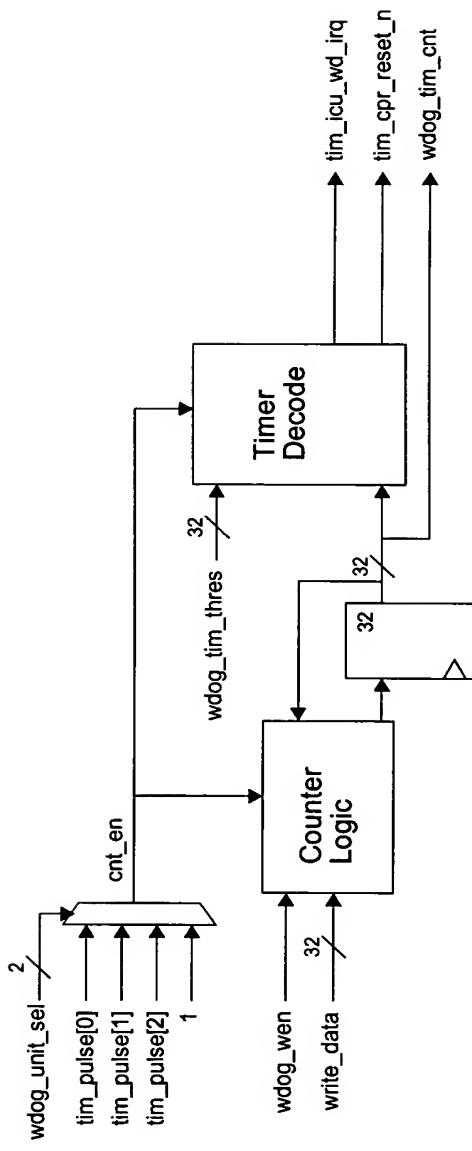
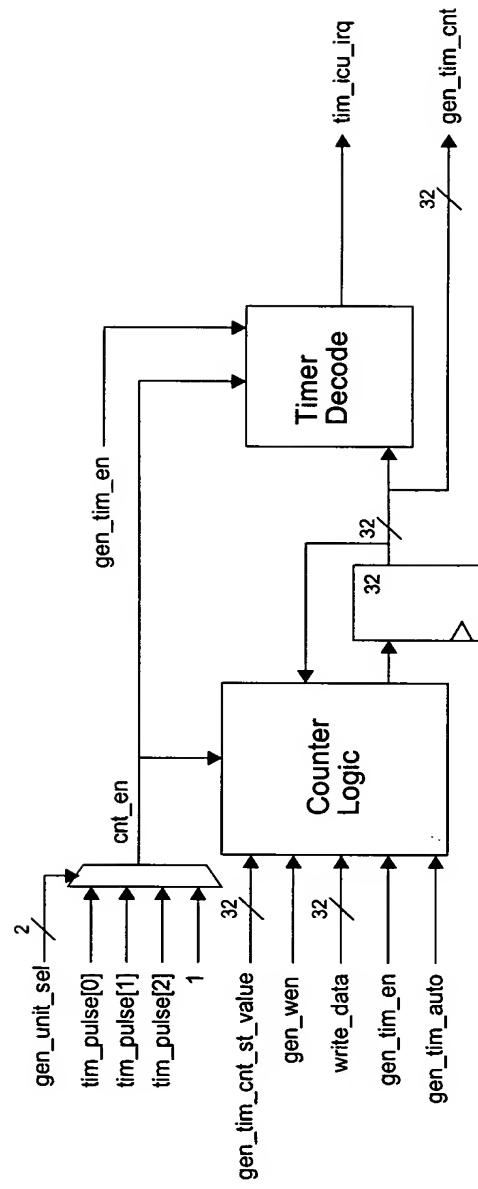


FIG. 65



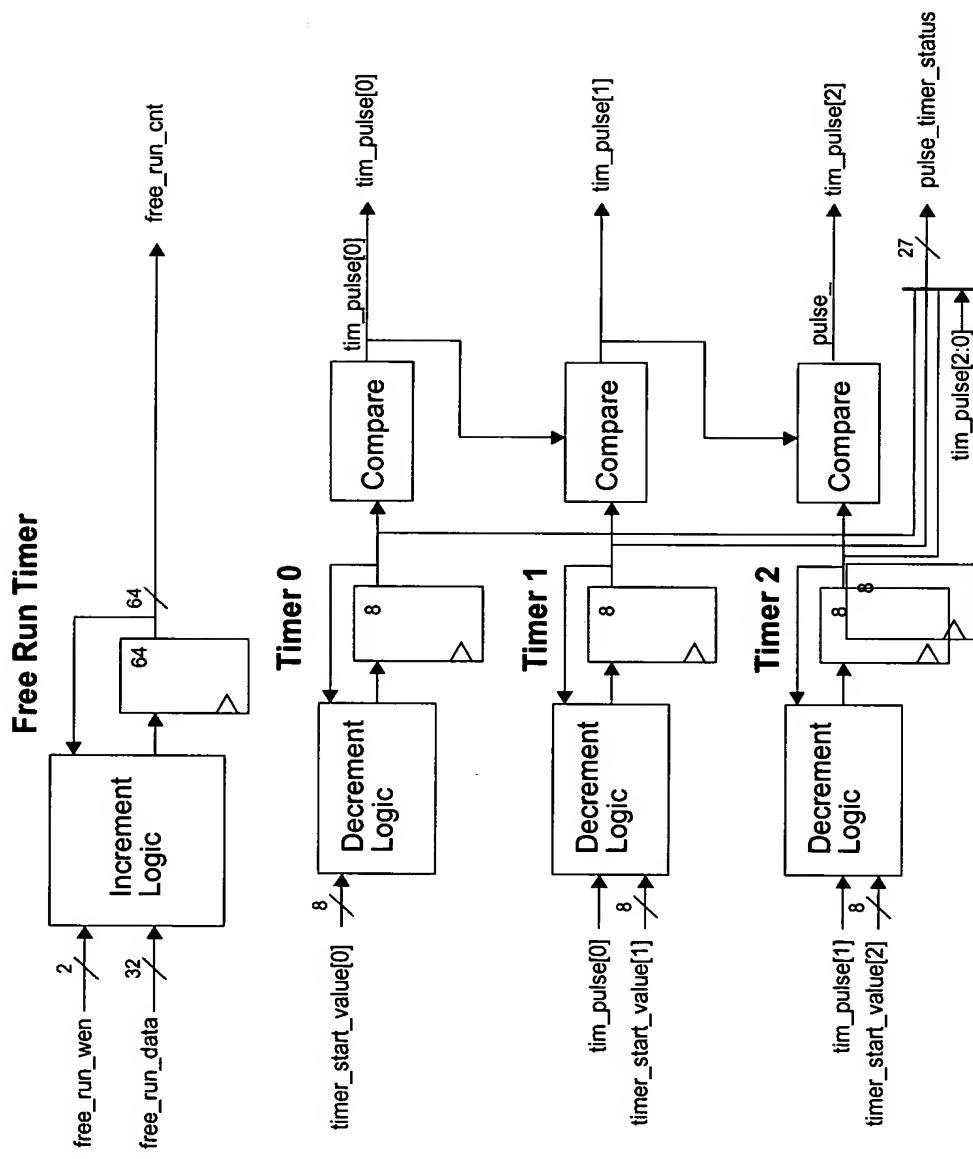


FIG. 66

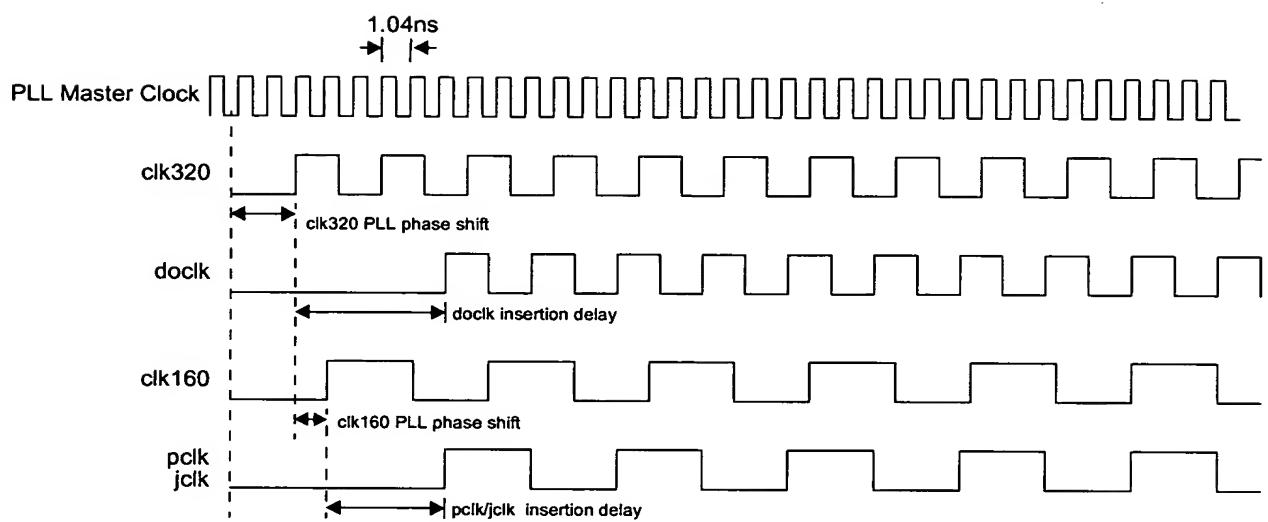


FIG. 67

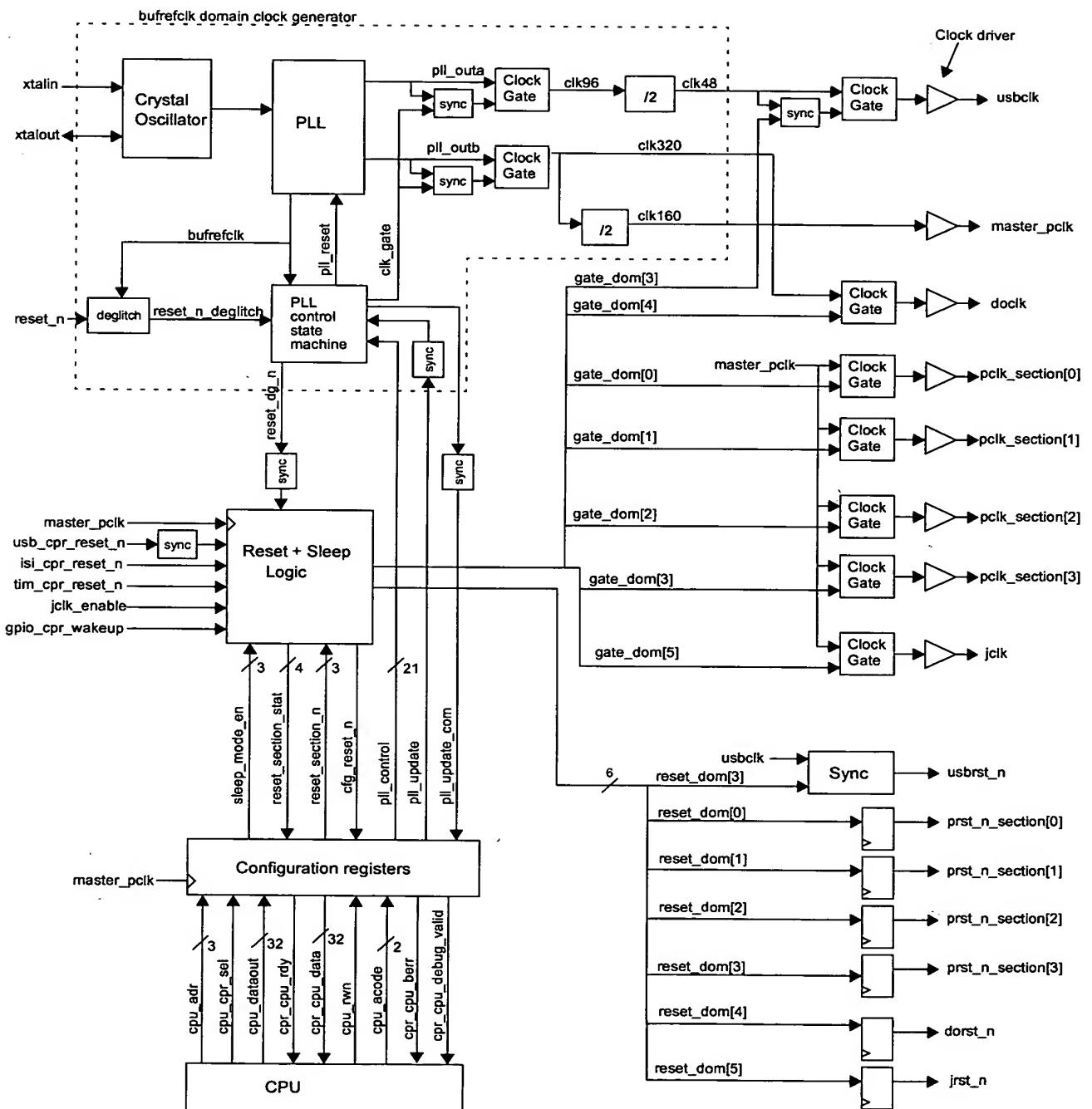
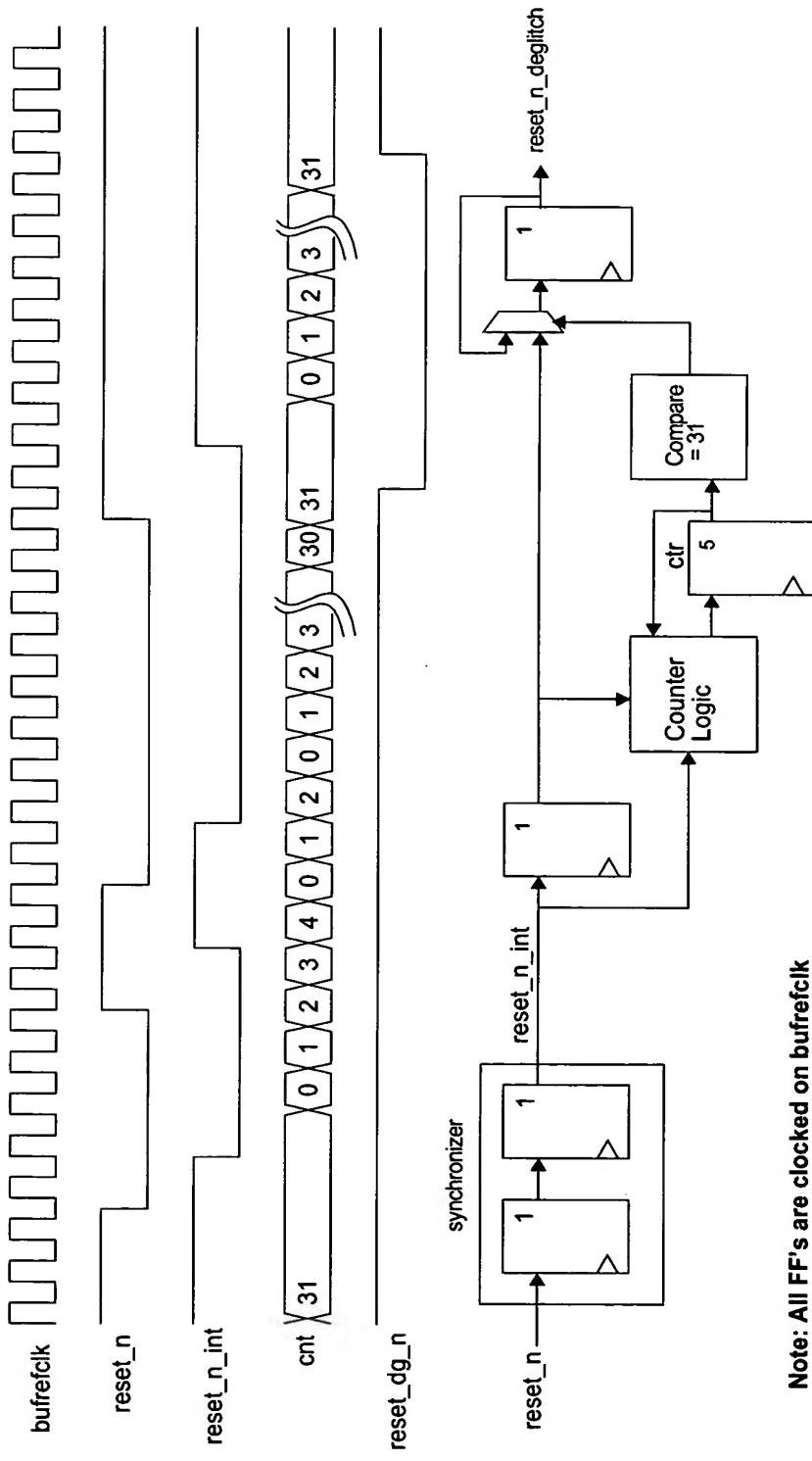


FIG. 68



Note: All FF's are clocked on bufrefclk

FIG. 69

FIG. 70

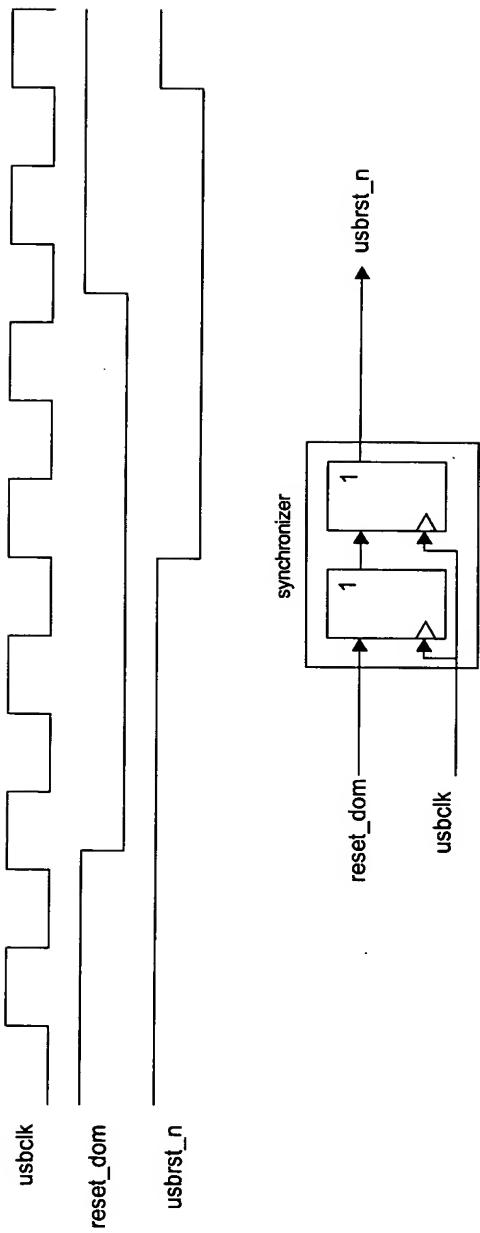
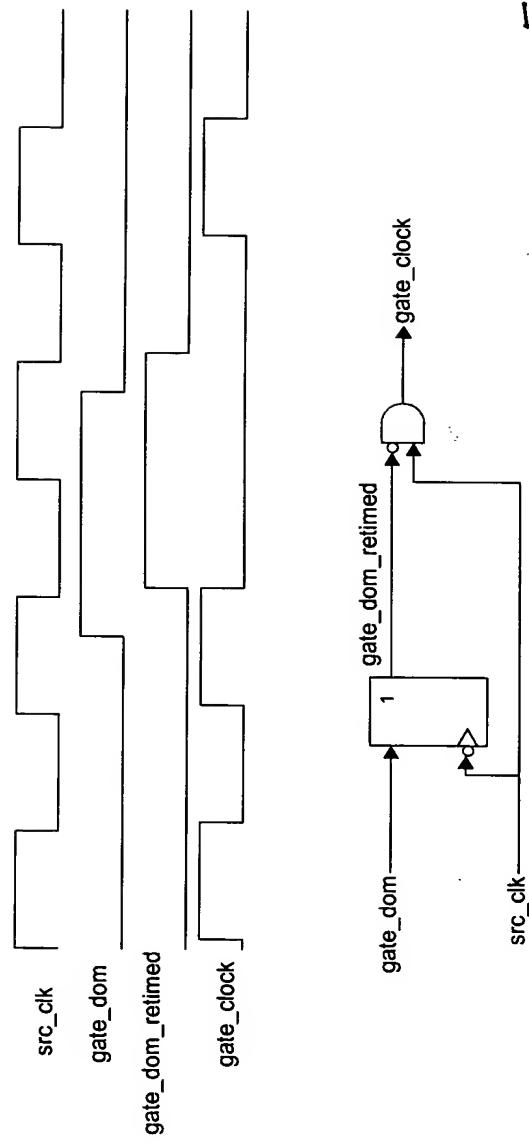


FIG. 71



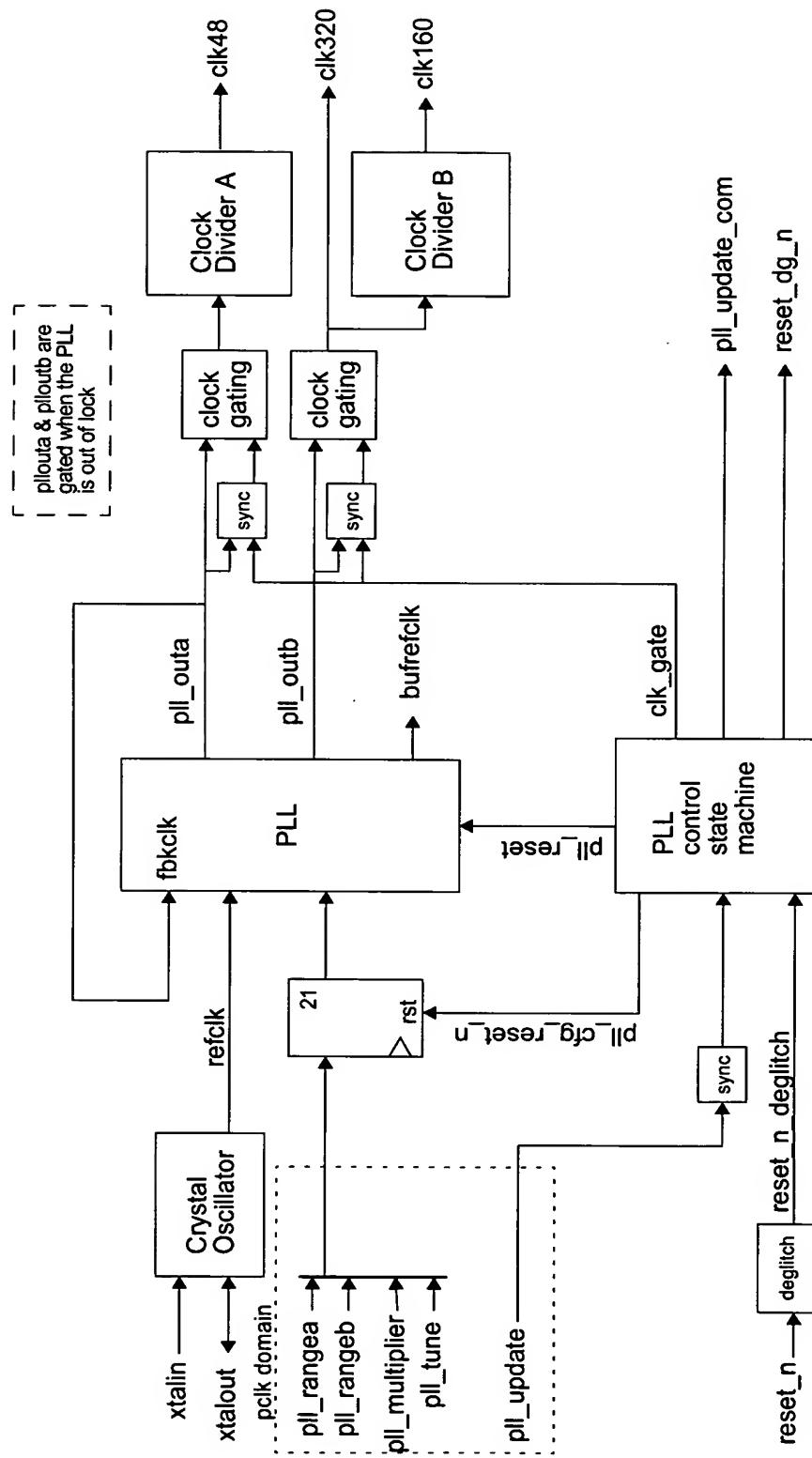


FIG. 72

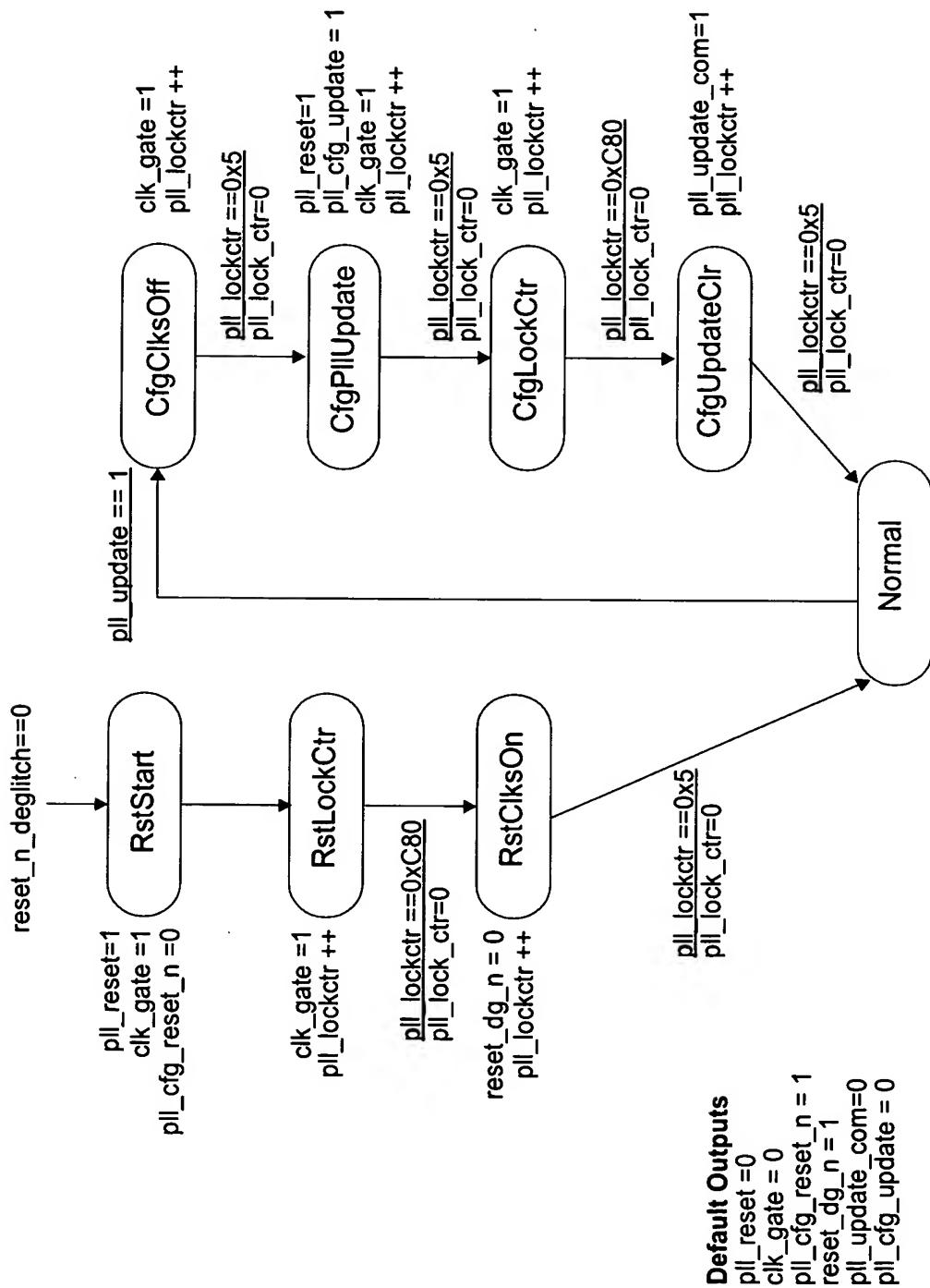


FIG. 73

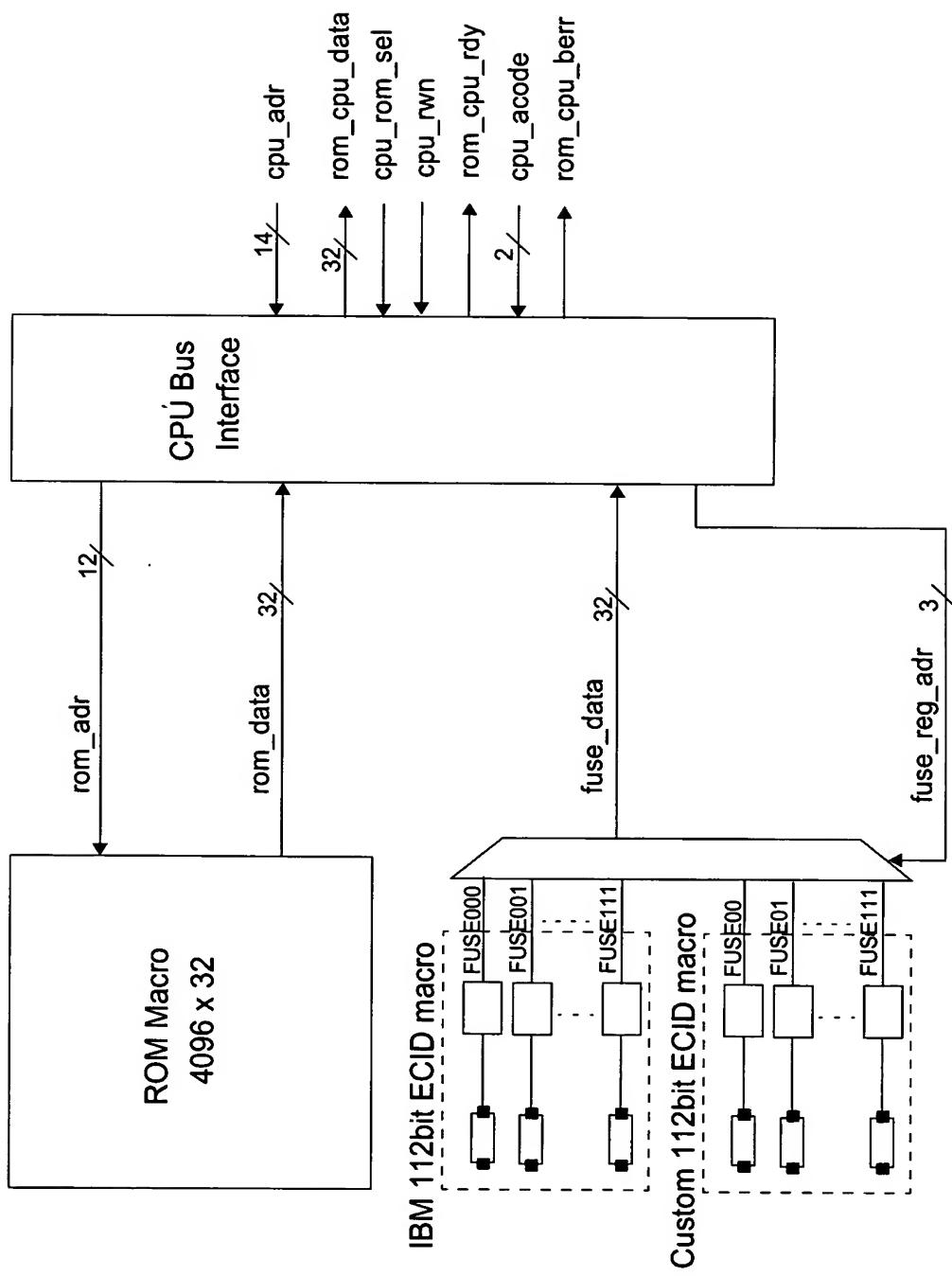


FIG. 74

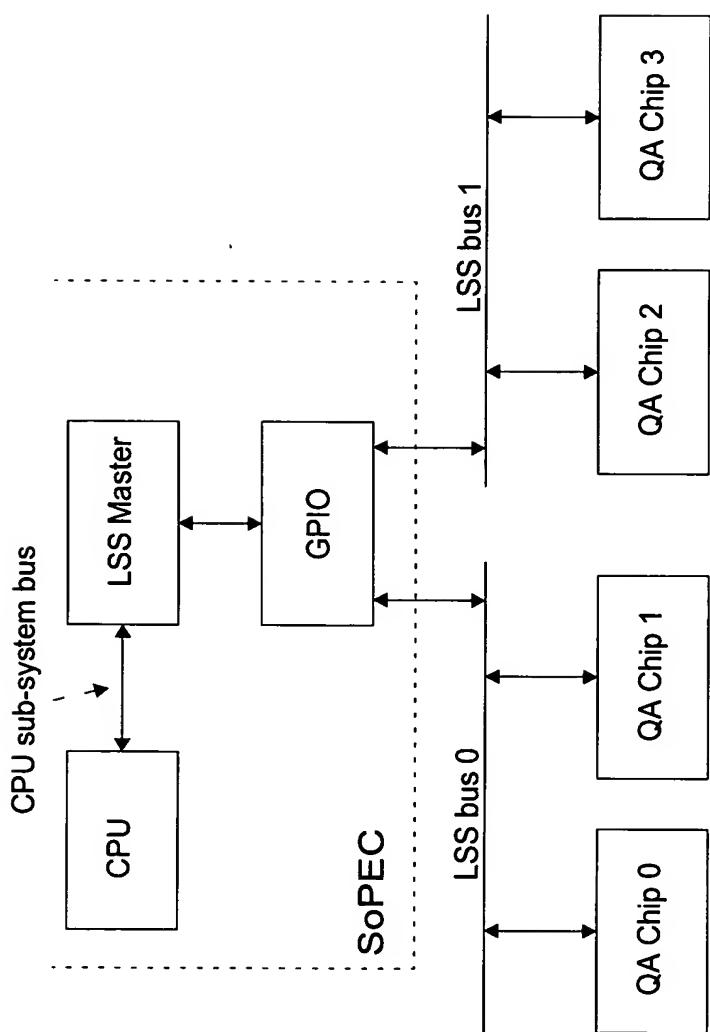


FIG. 75

FIG. 76

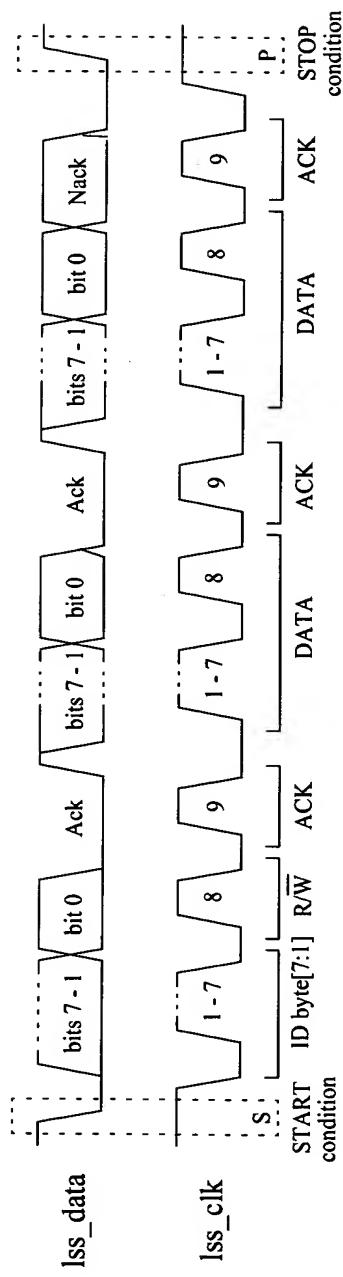
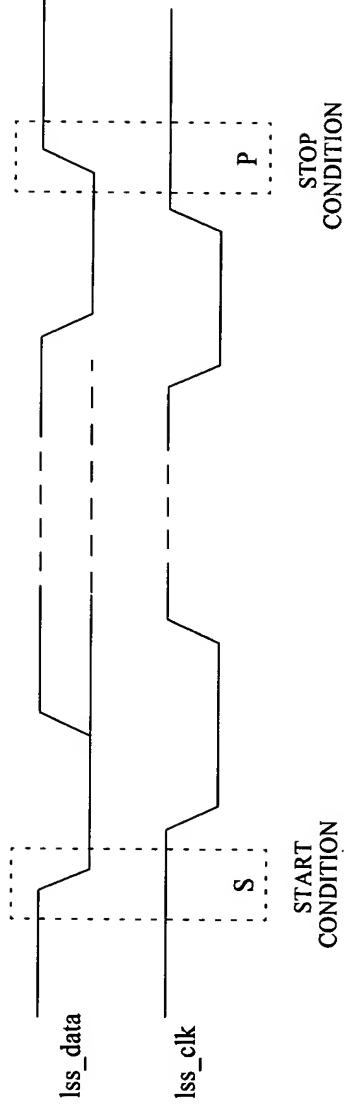


FIG. 77

FIG. 78

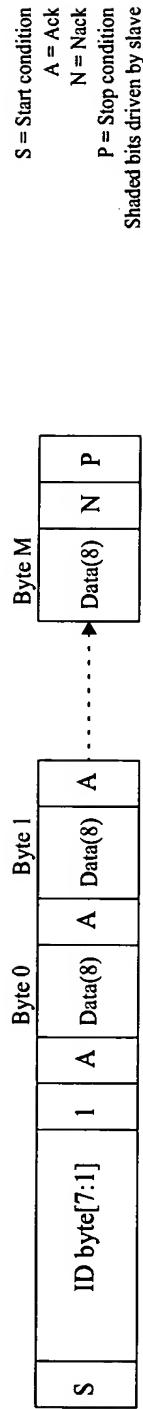
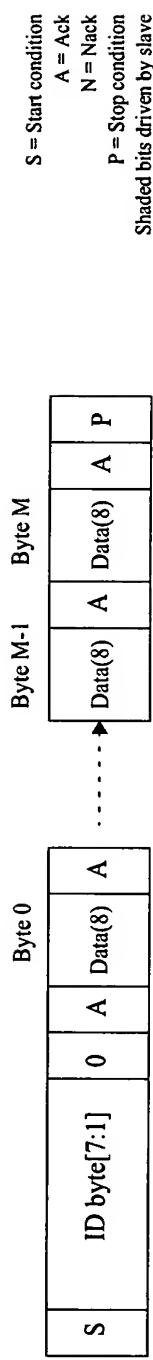


FIG. 79

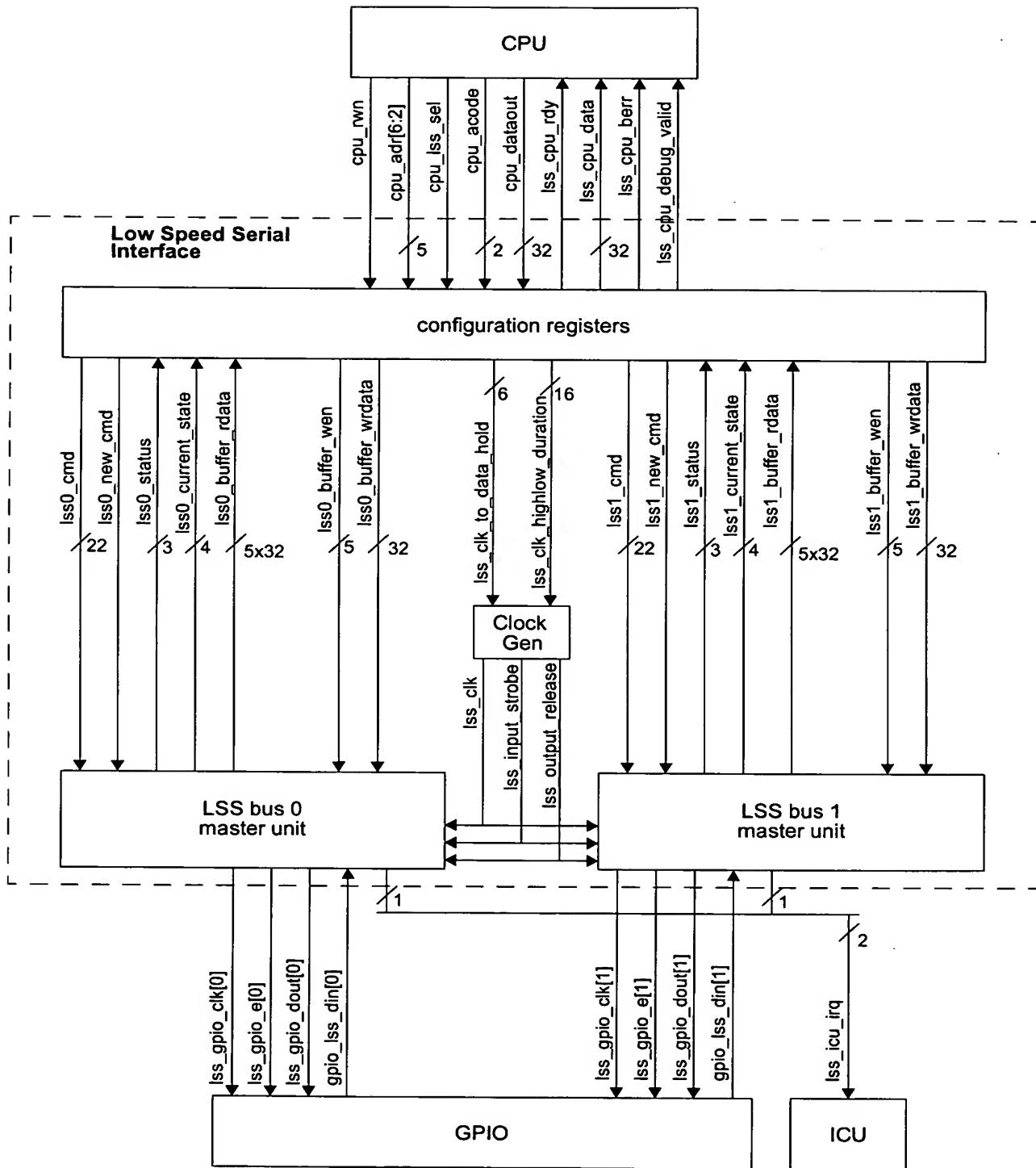


FIG. 80

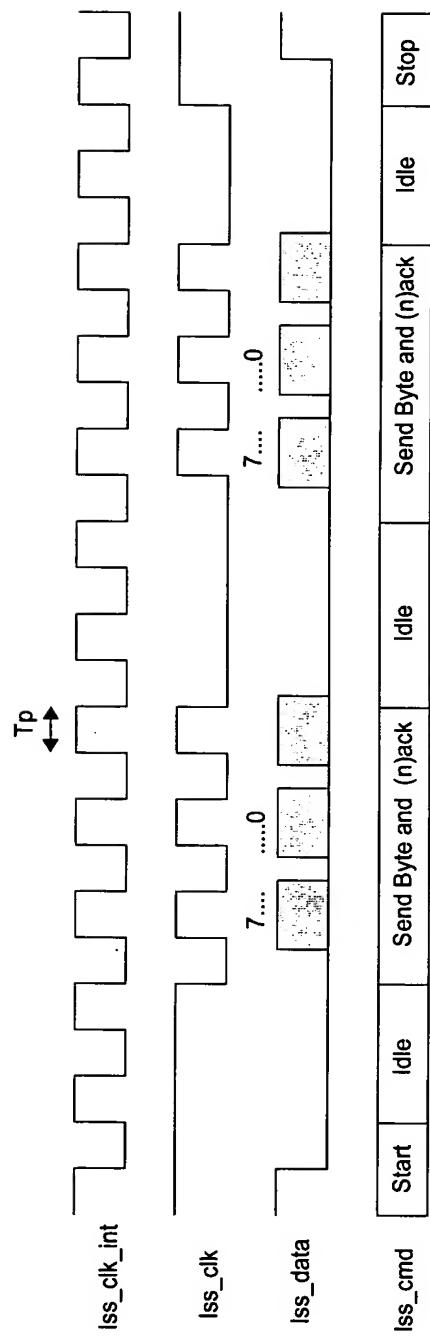


FIG. 81

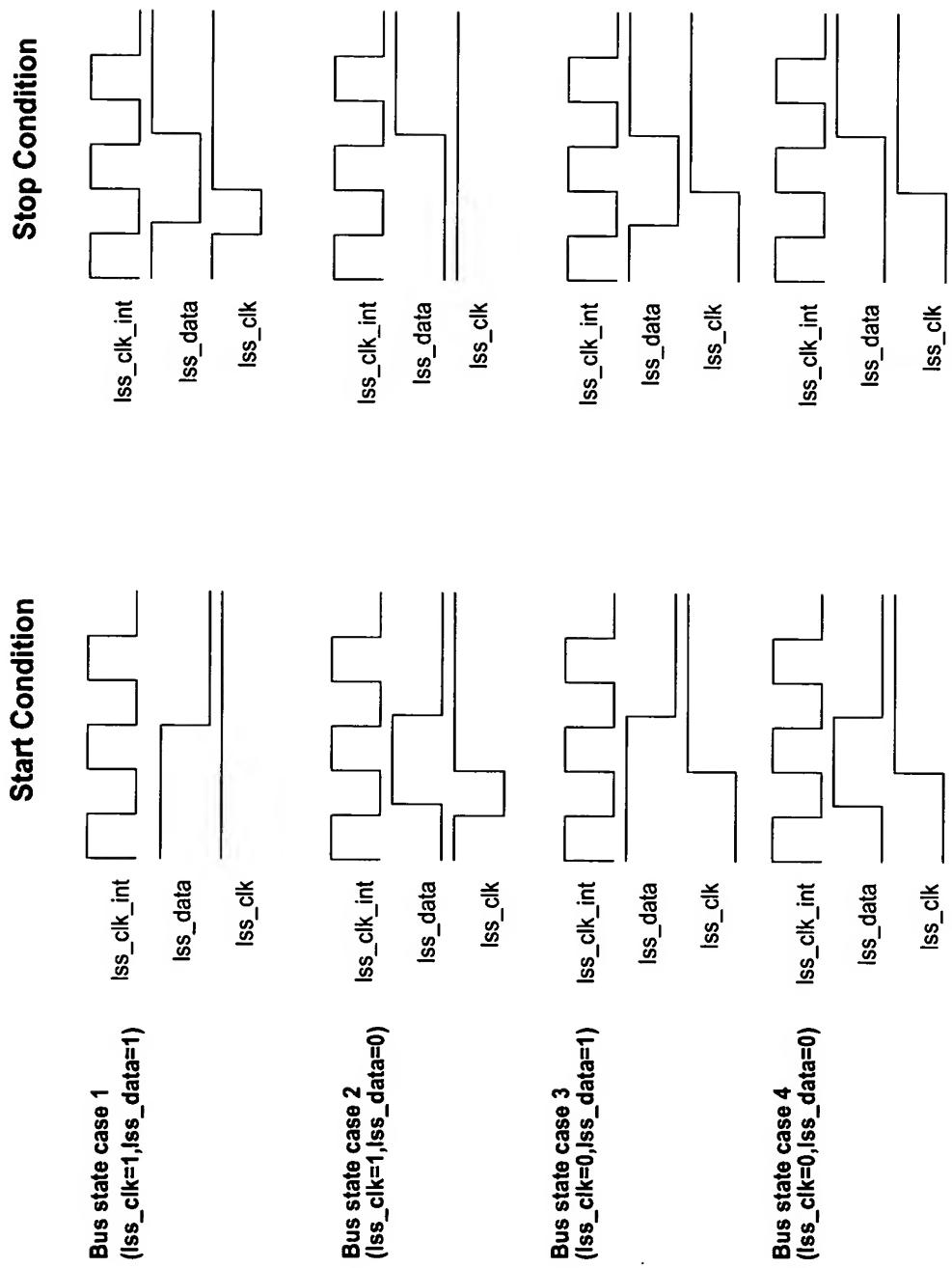


FIG. 82

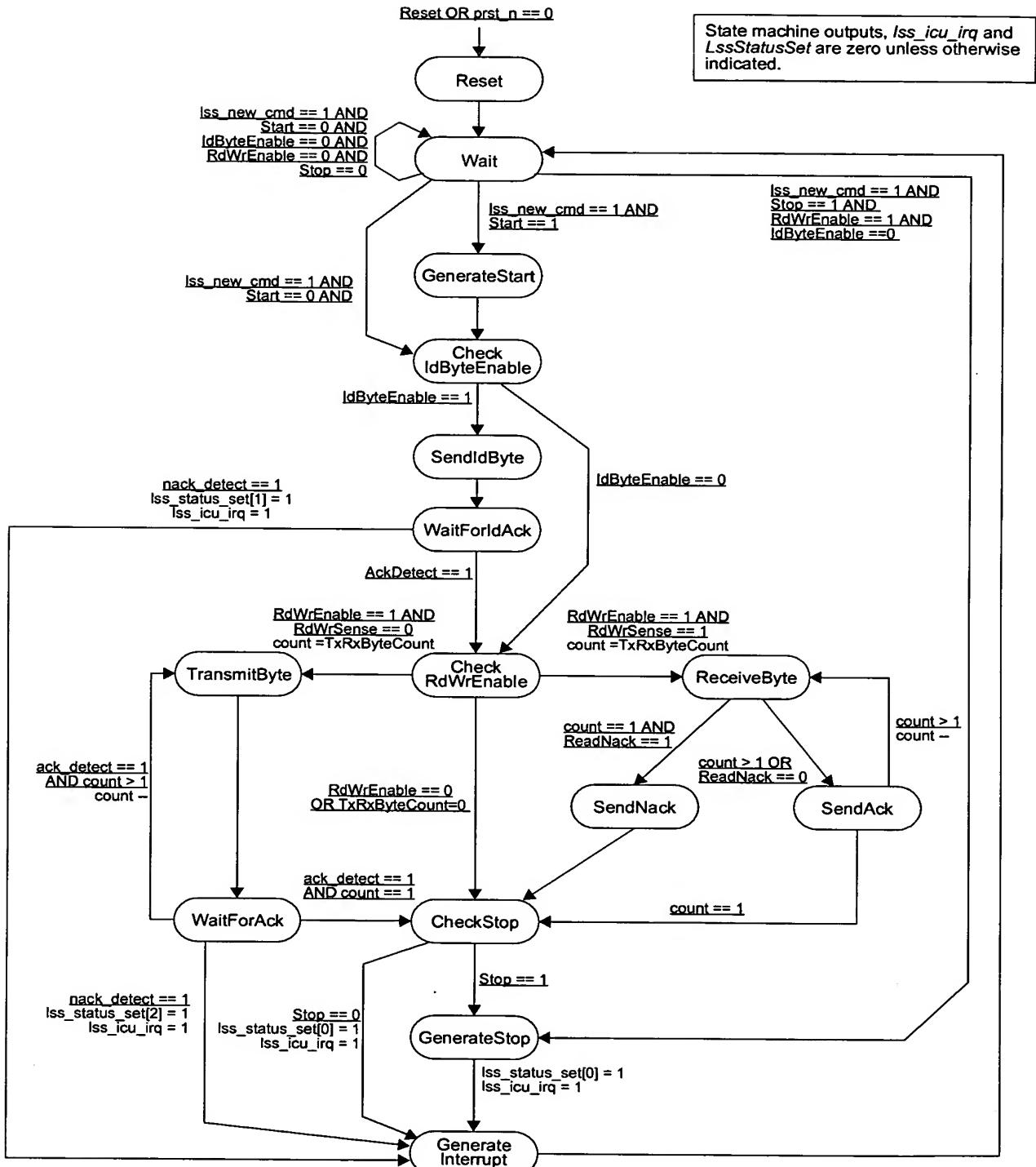


FIG. 83

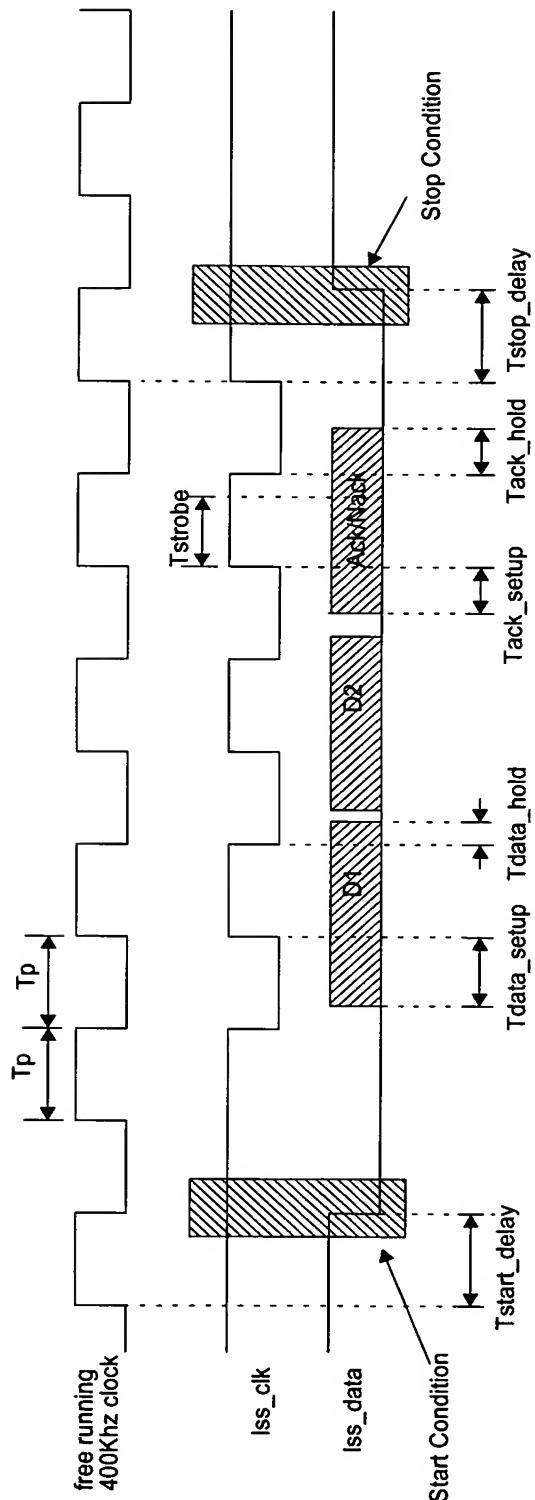


FIG. 84

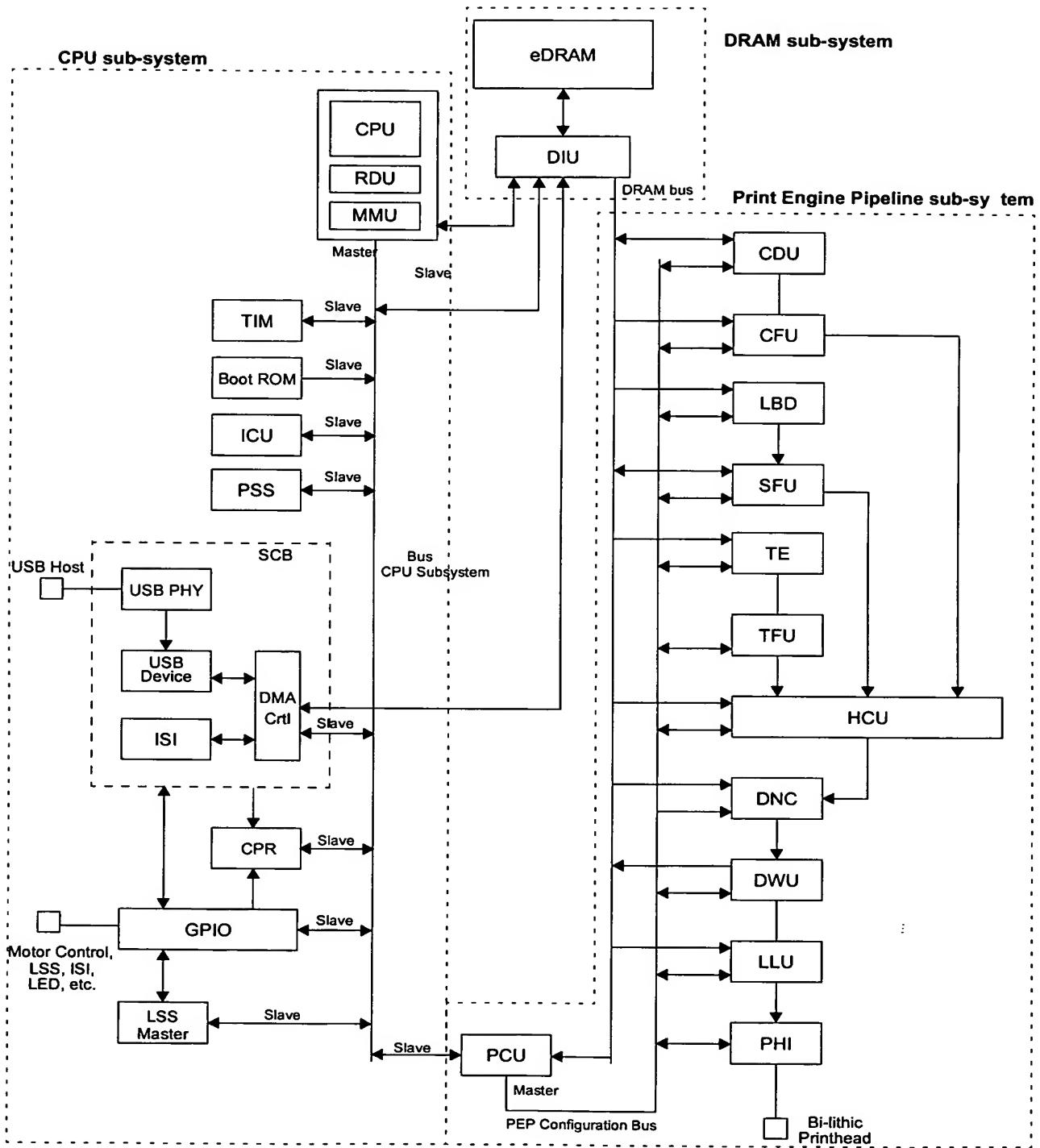


FIG. 85

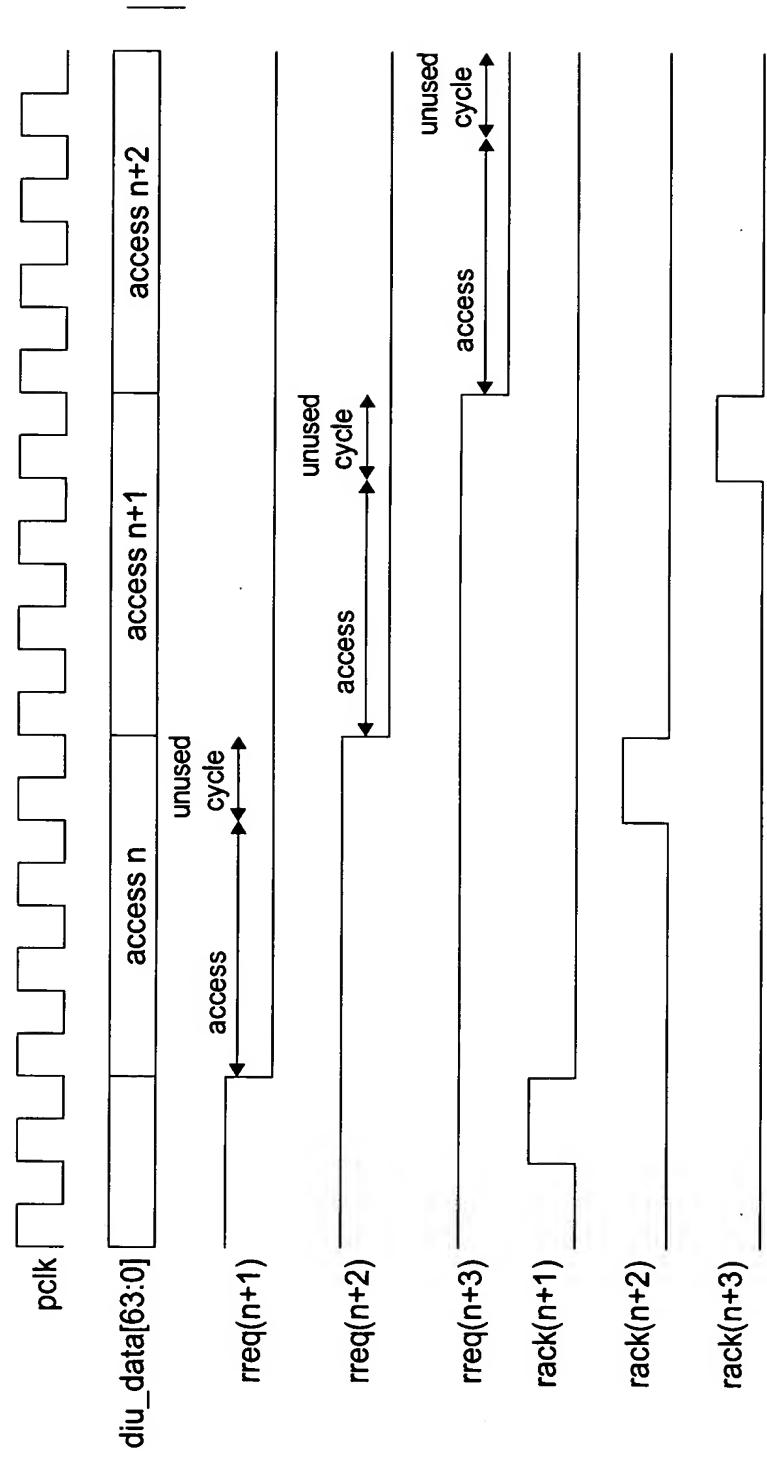


FIG. 86

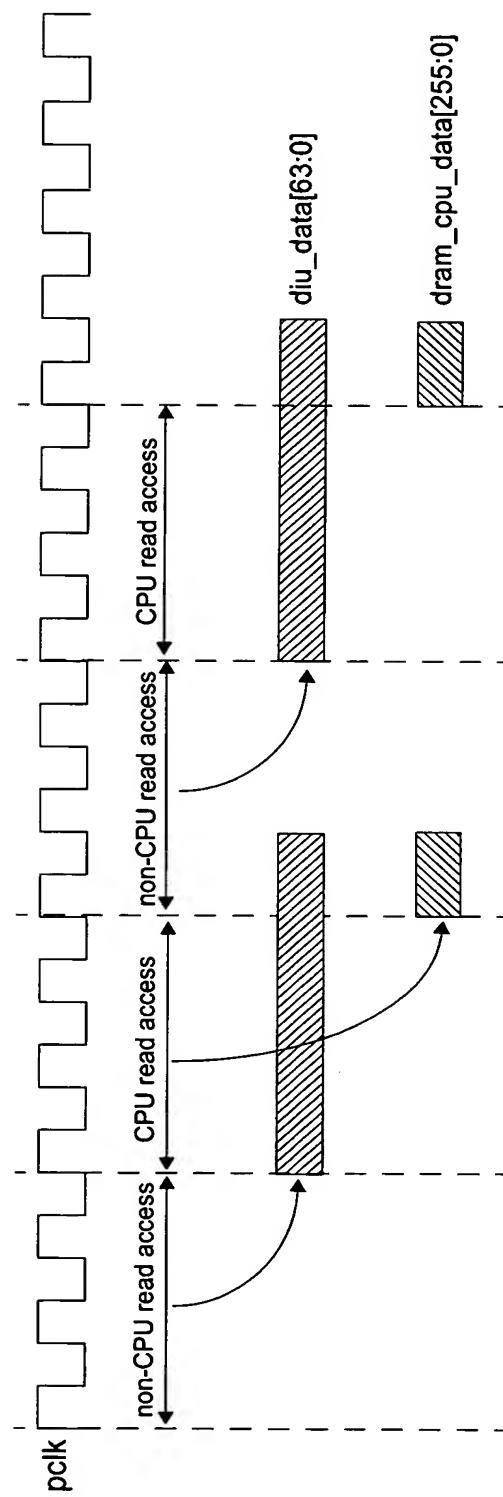


FIG. 87

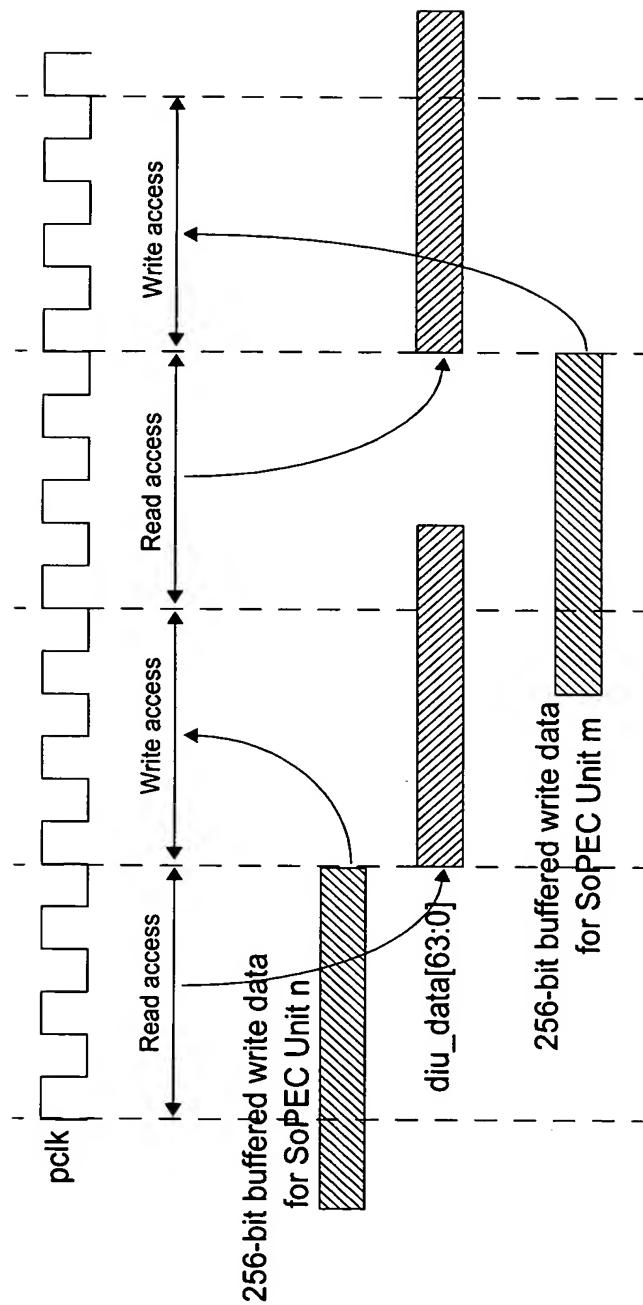


FIG. 88

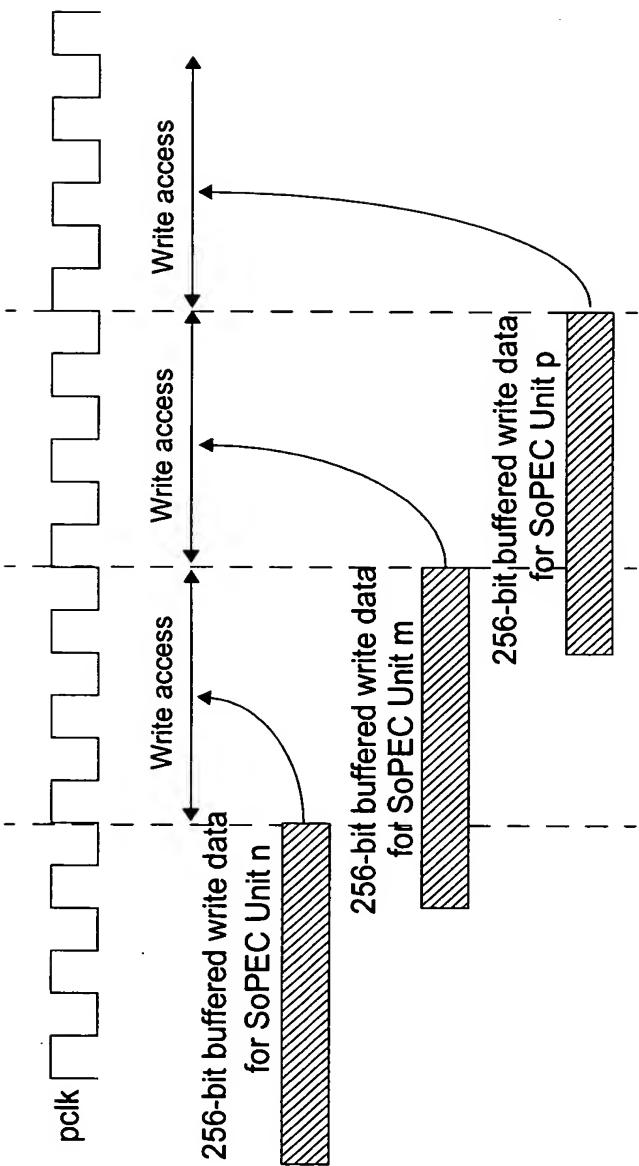


FIG. 89

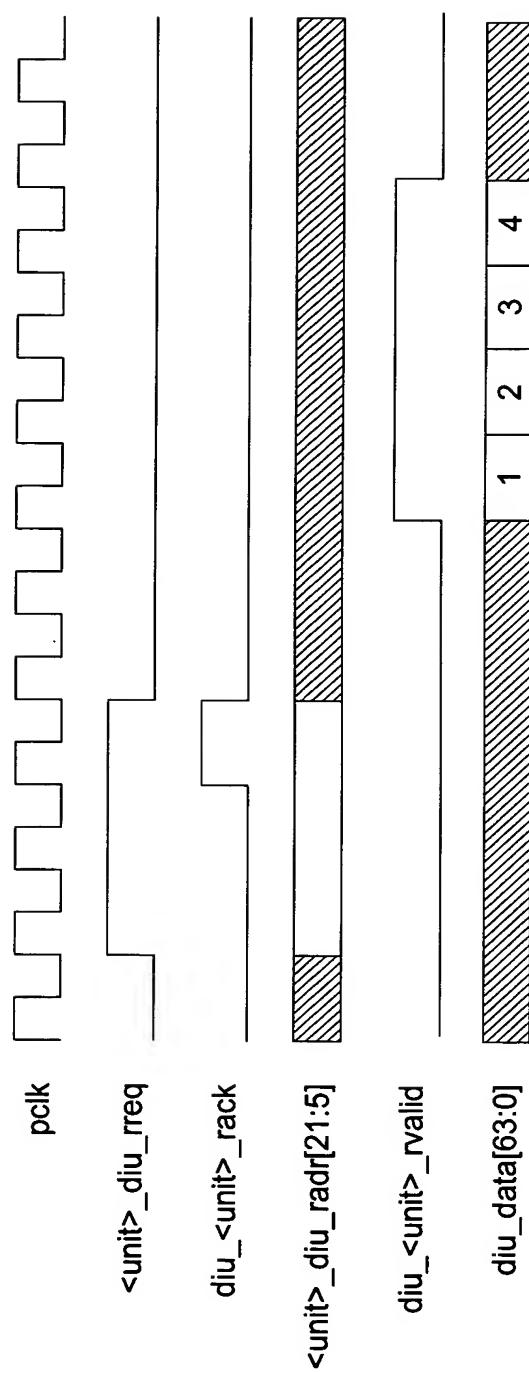


FIG. 90

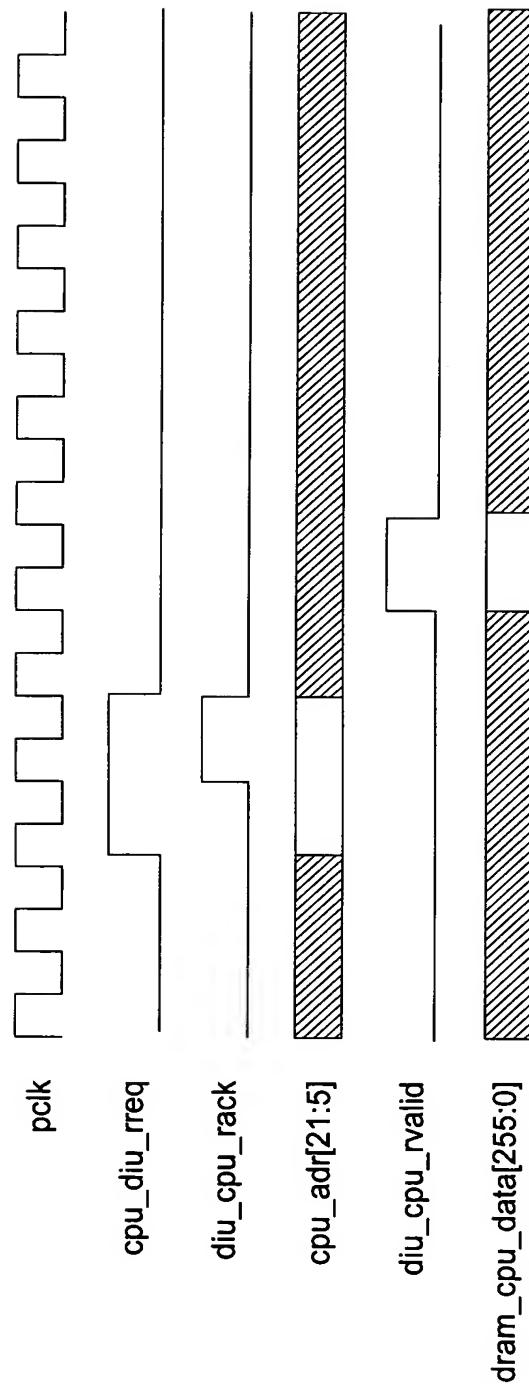


FIG. 91

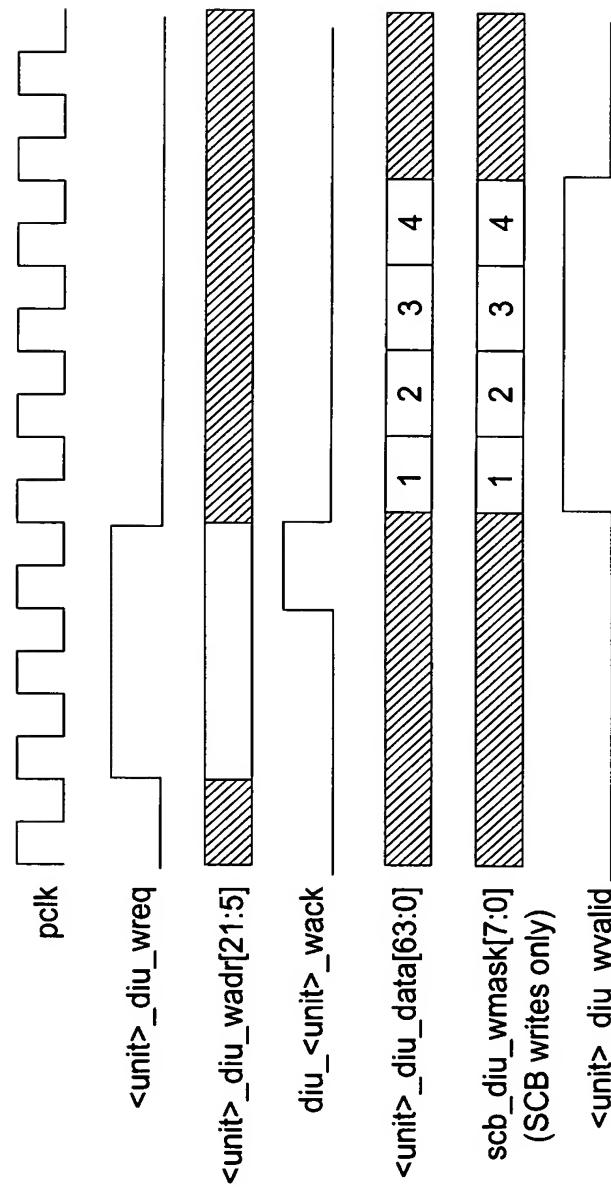


FIG. 92

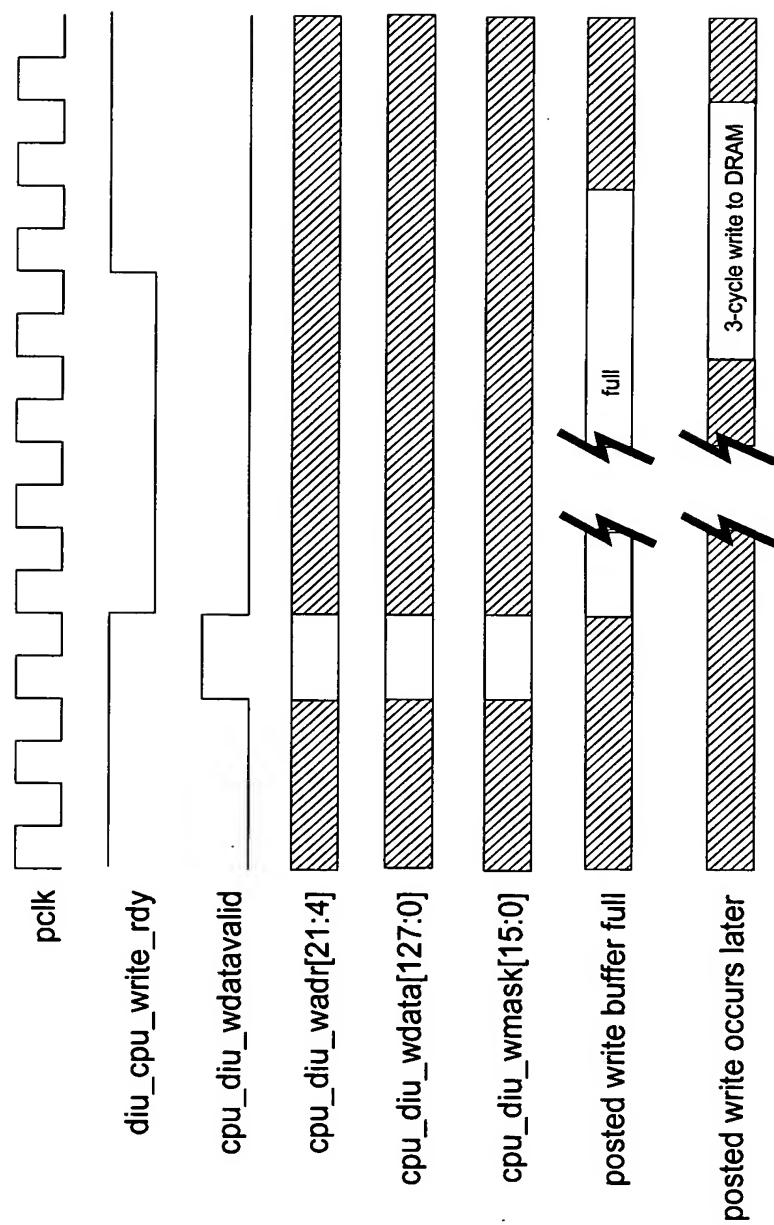


FIG. 93

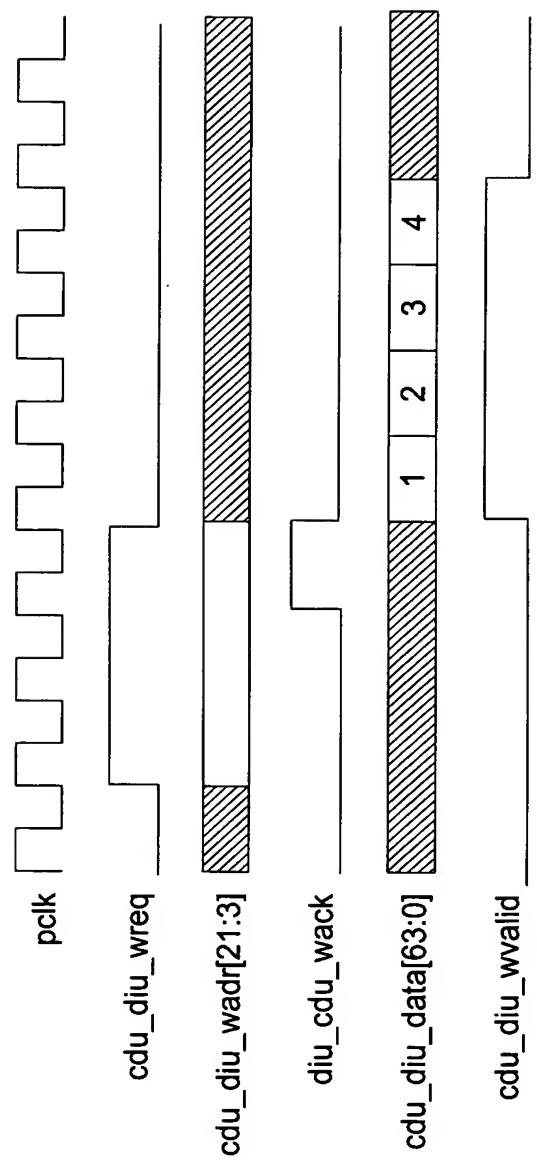


FIG. 94

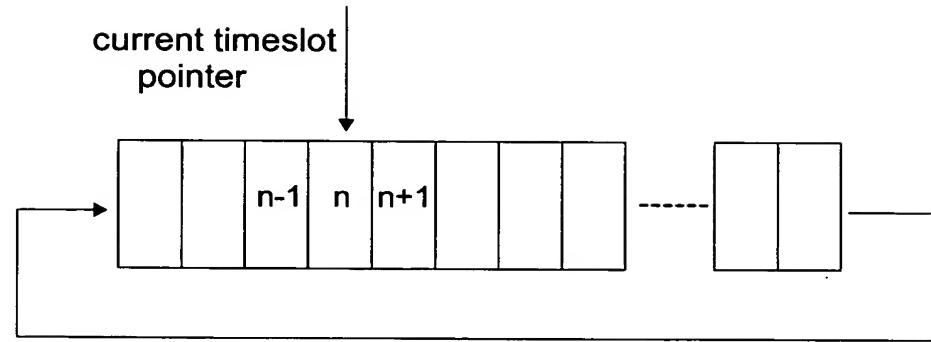


FIG. 95

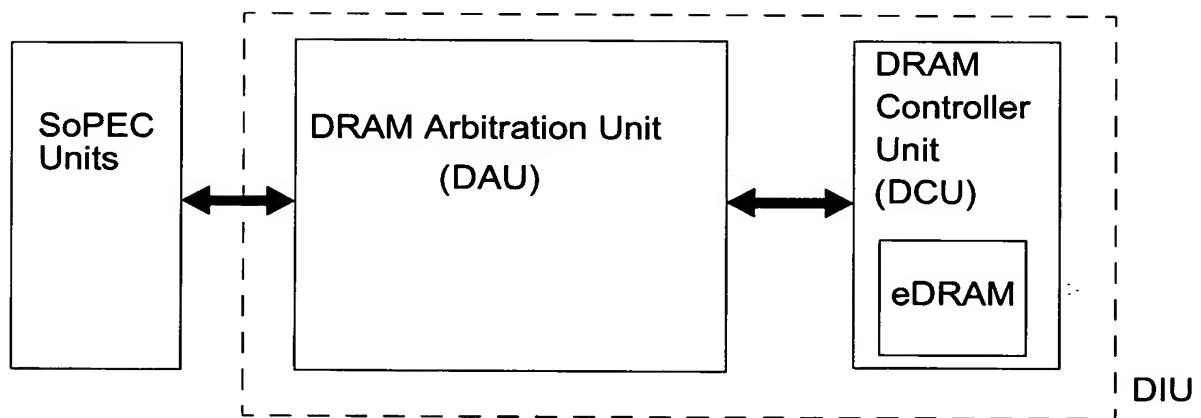


FIG. 100

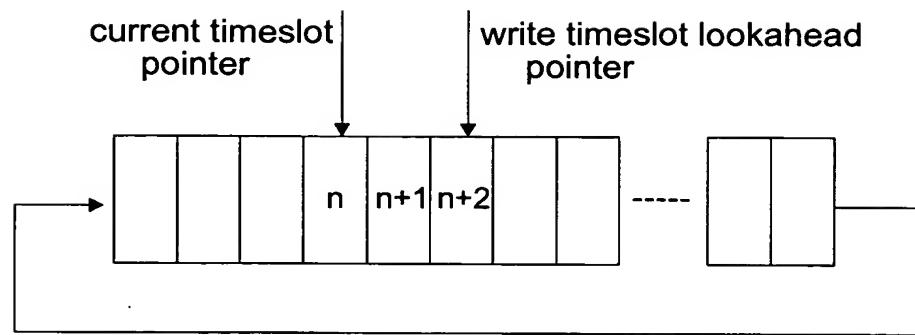


FIG. 96

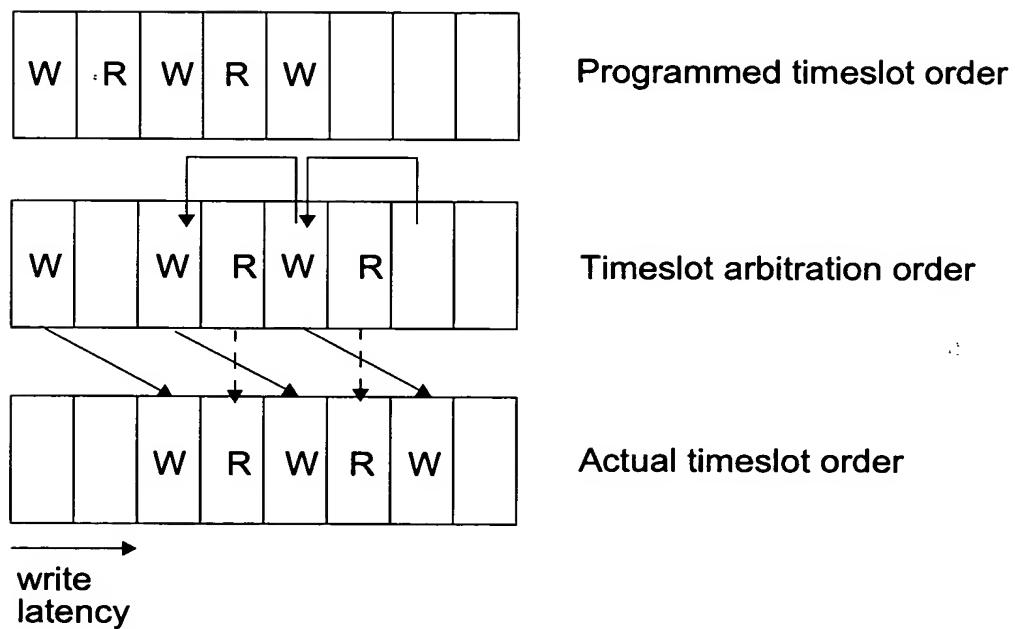


FIG. 97

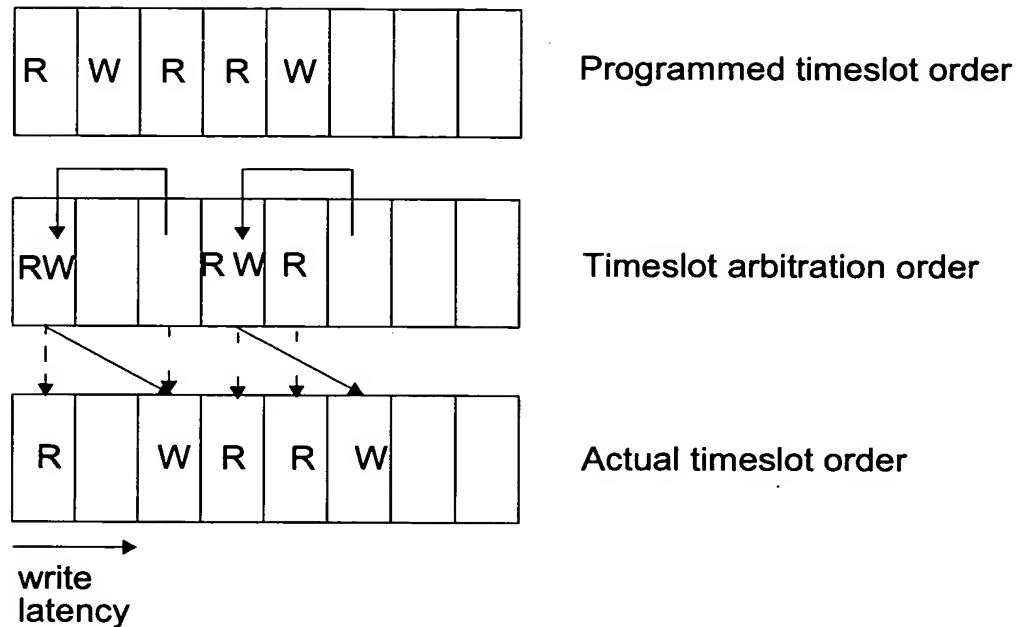


FIG. 98

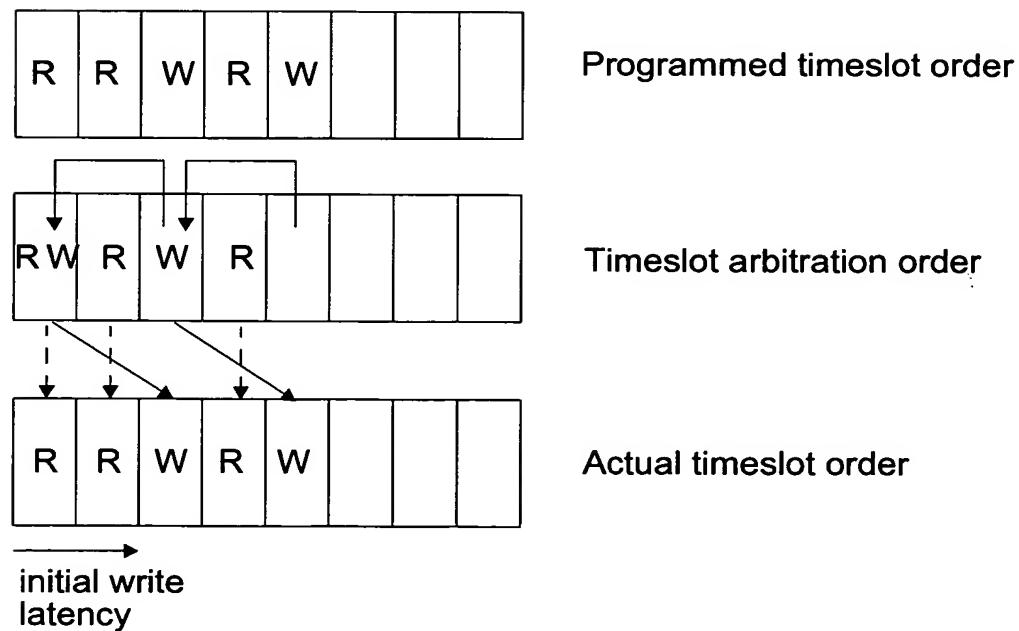


FIG. 99

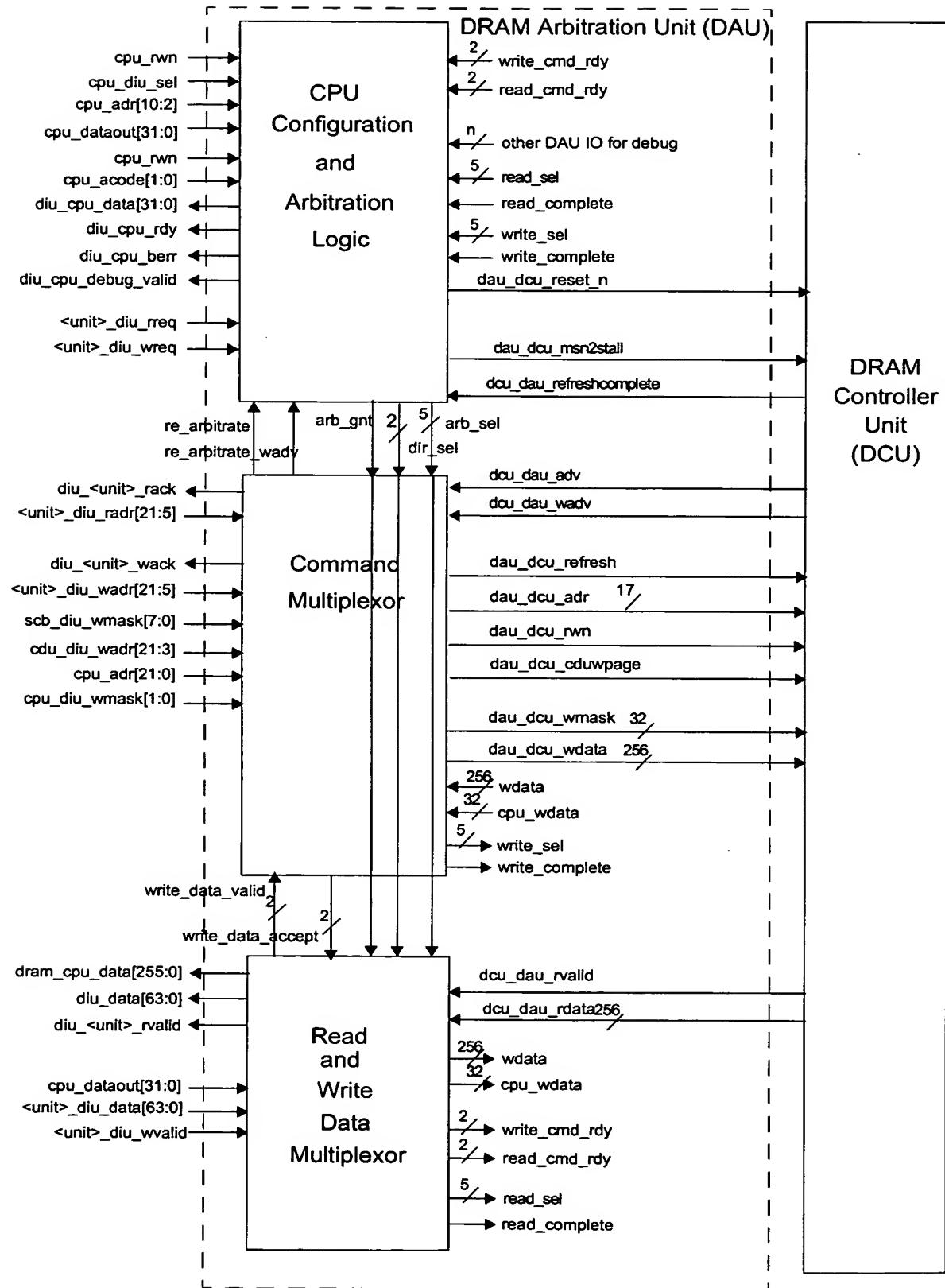


FIG. 101

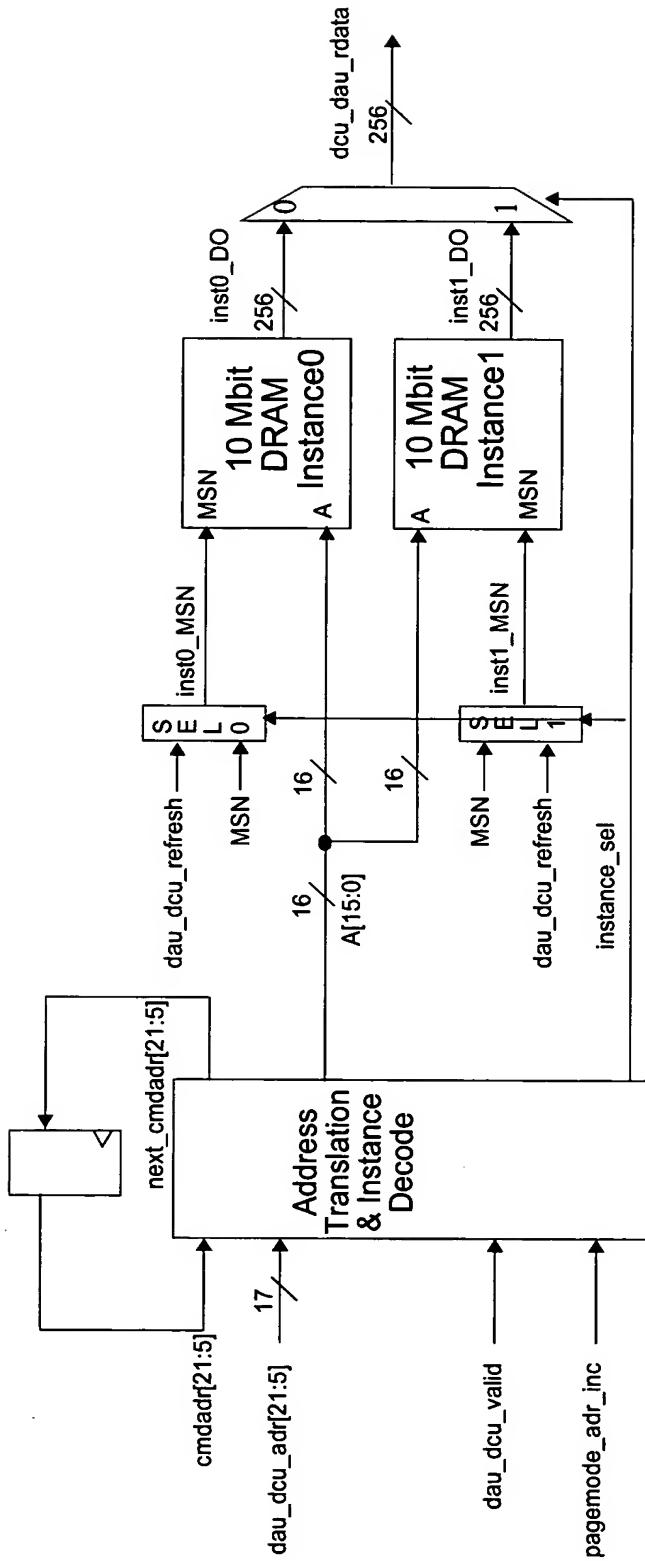


FIG. 102

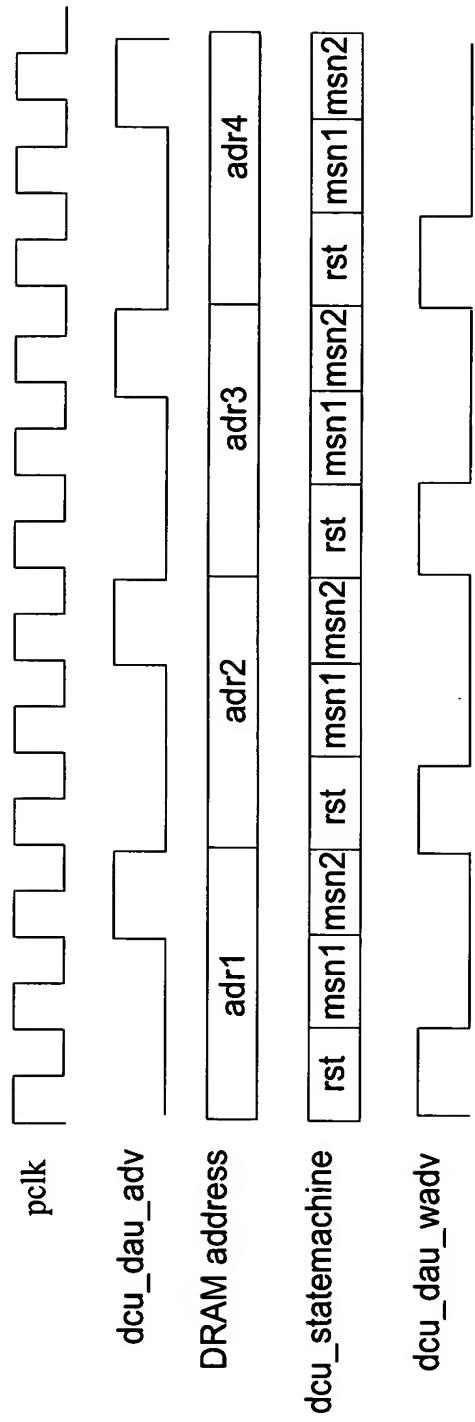


FIG. 103

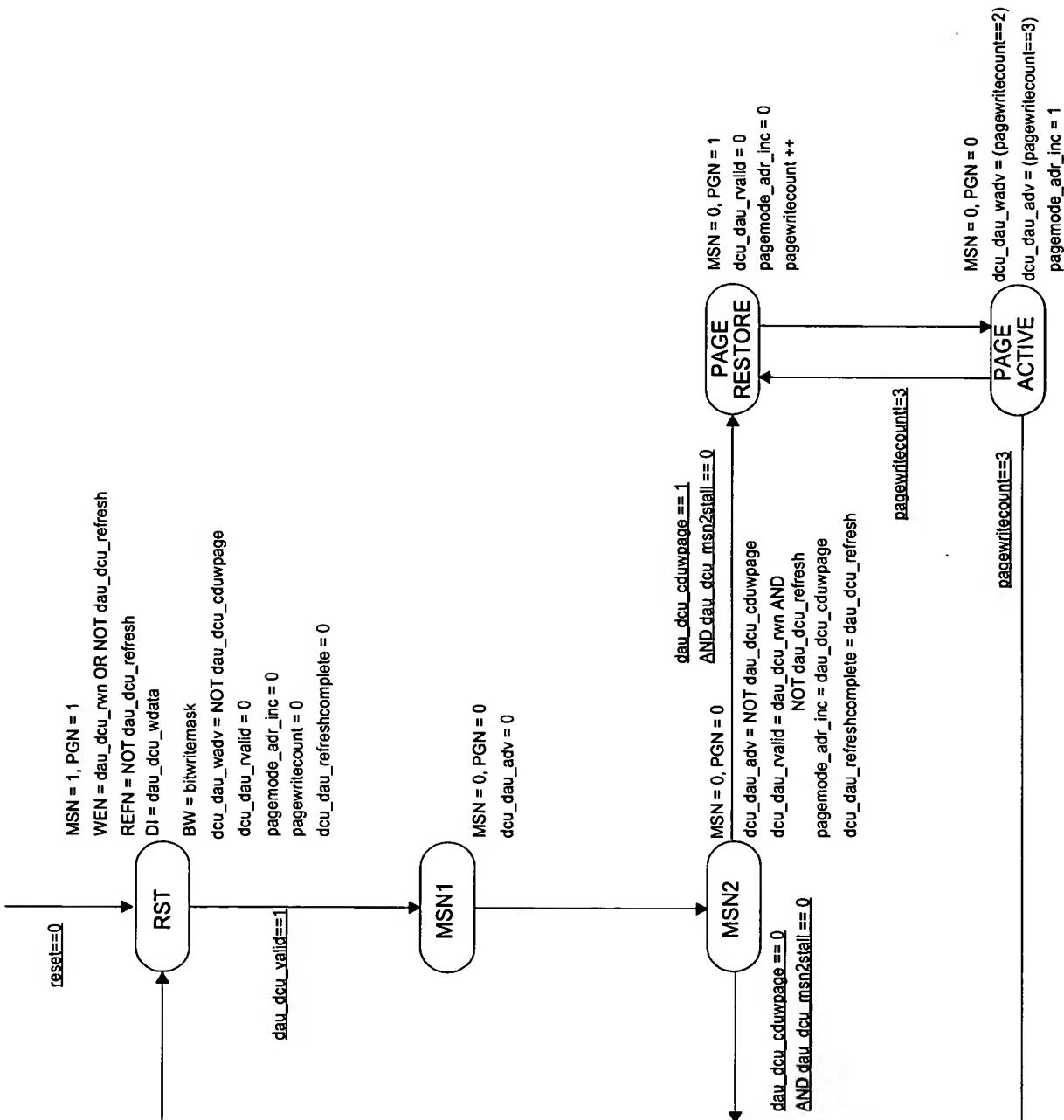


FIG. 104

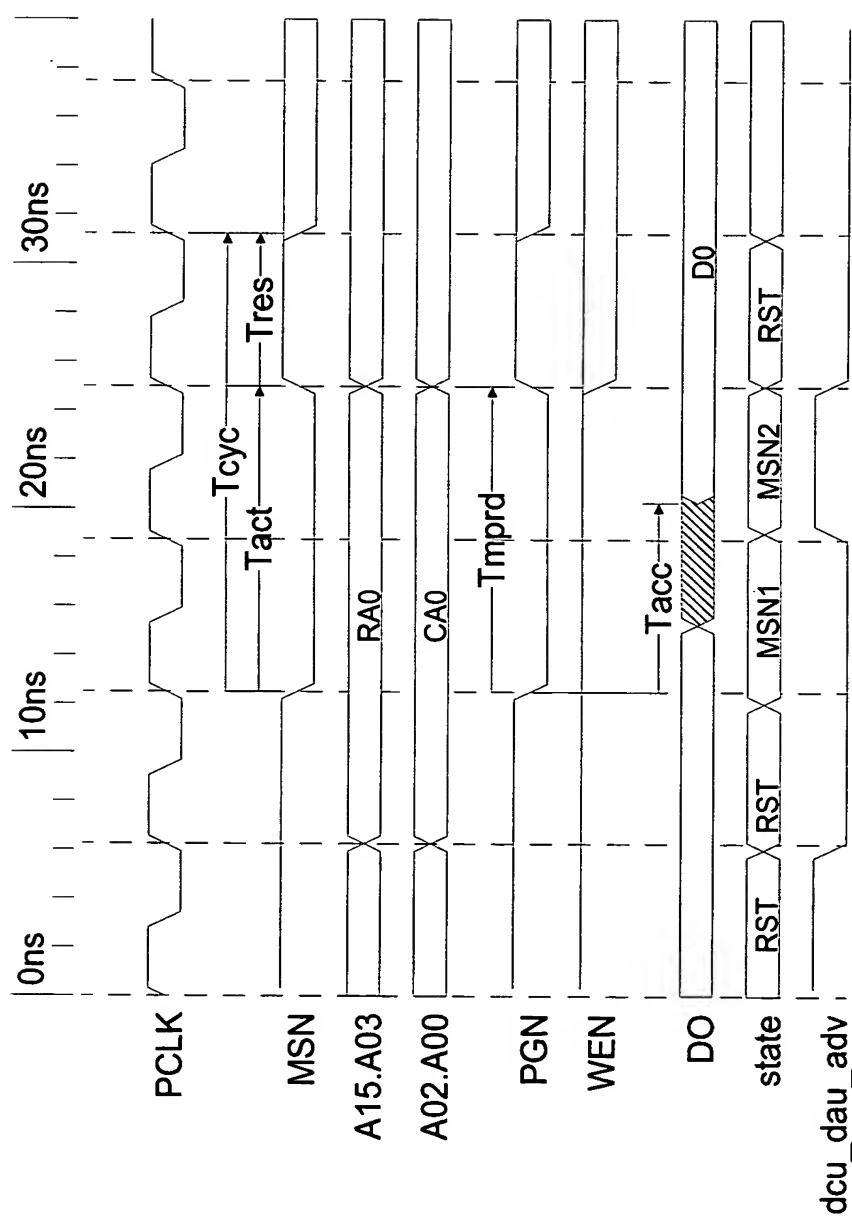


FIG. 105

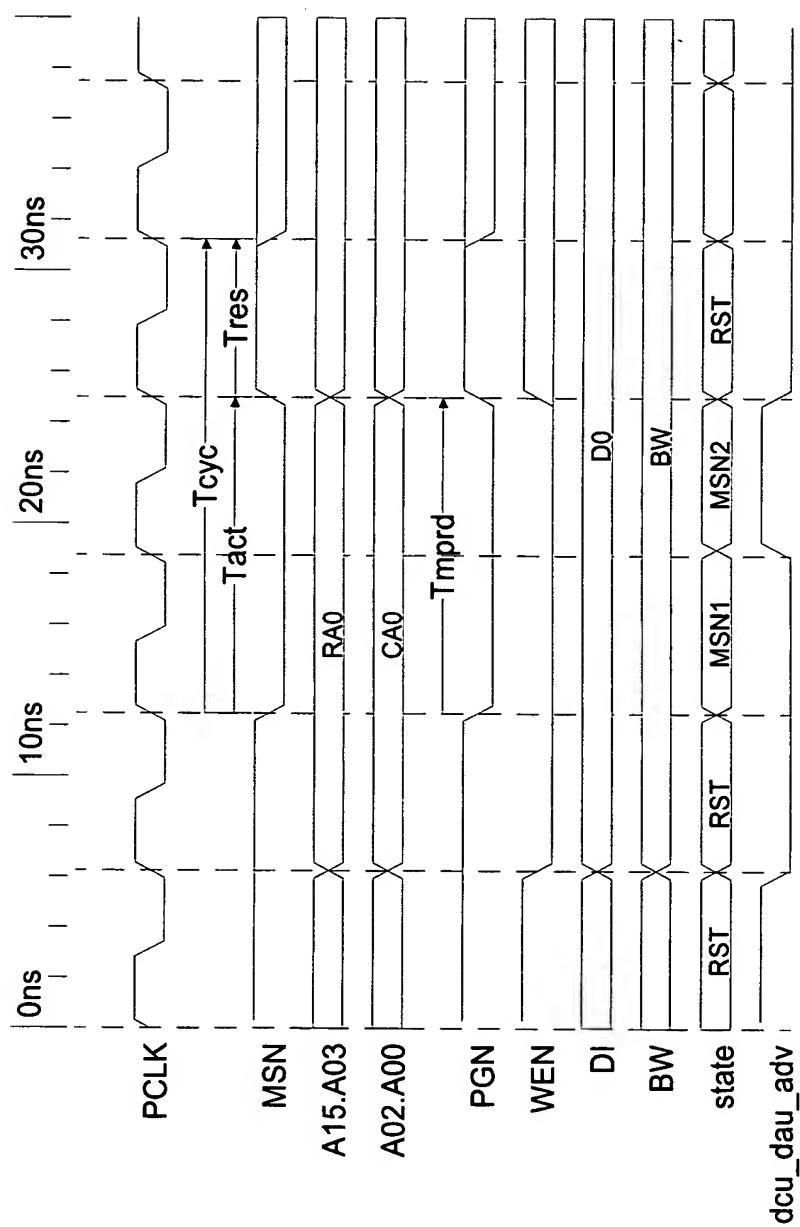


FIG. 106

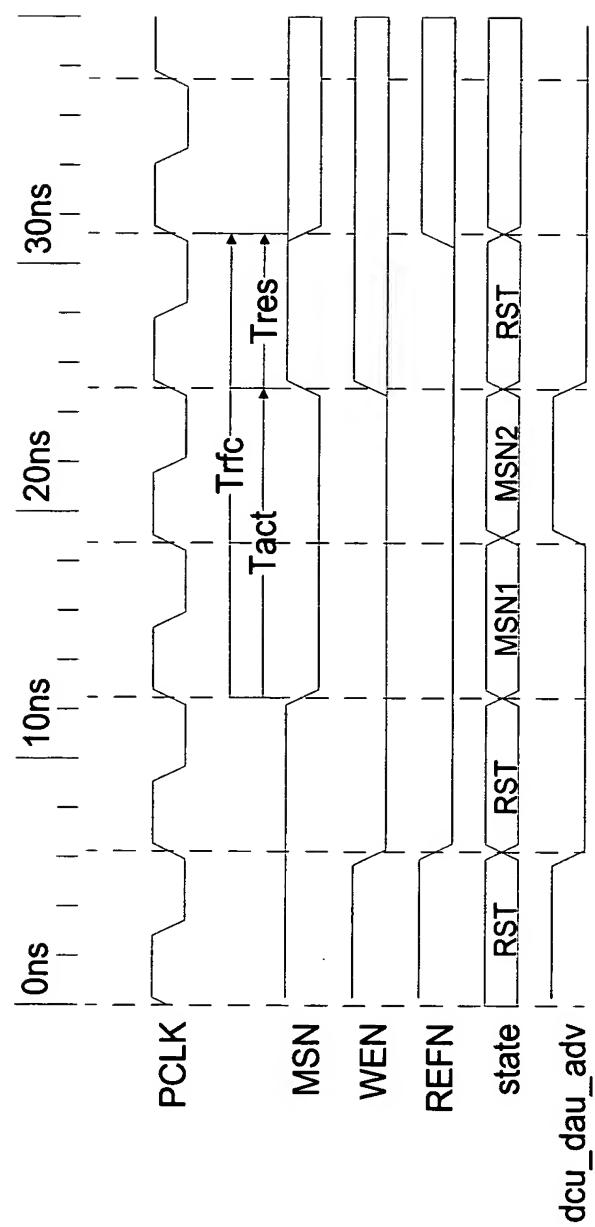


FIG. 107

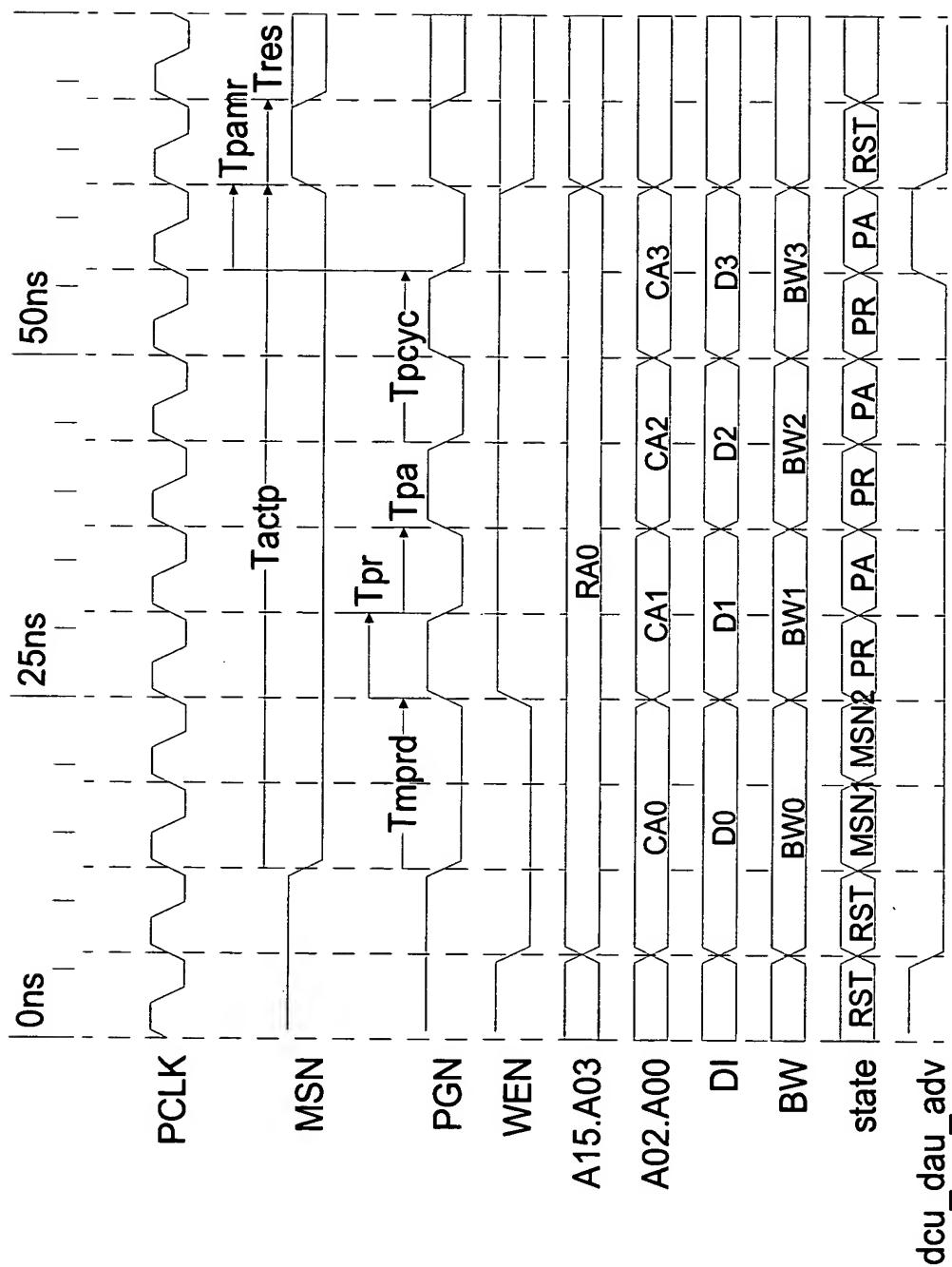


FIG. 108

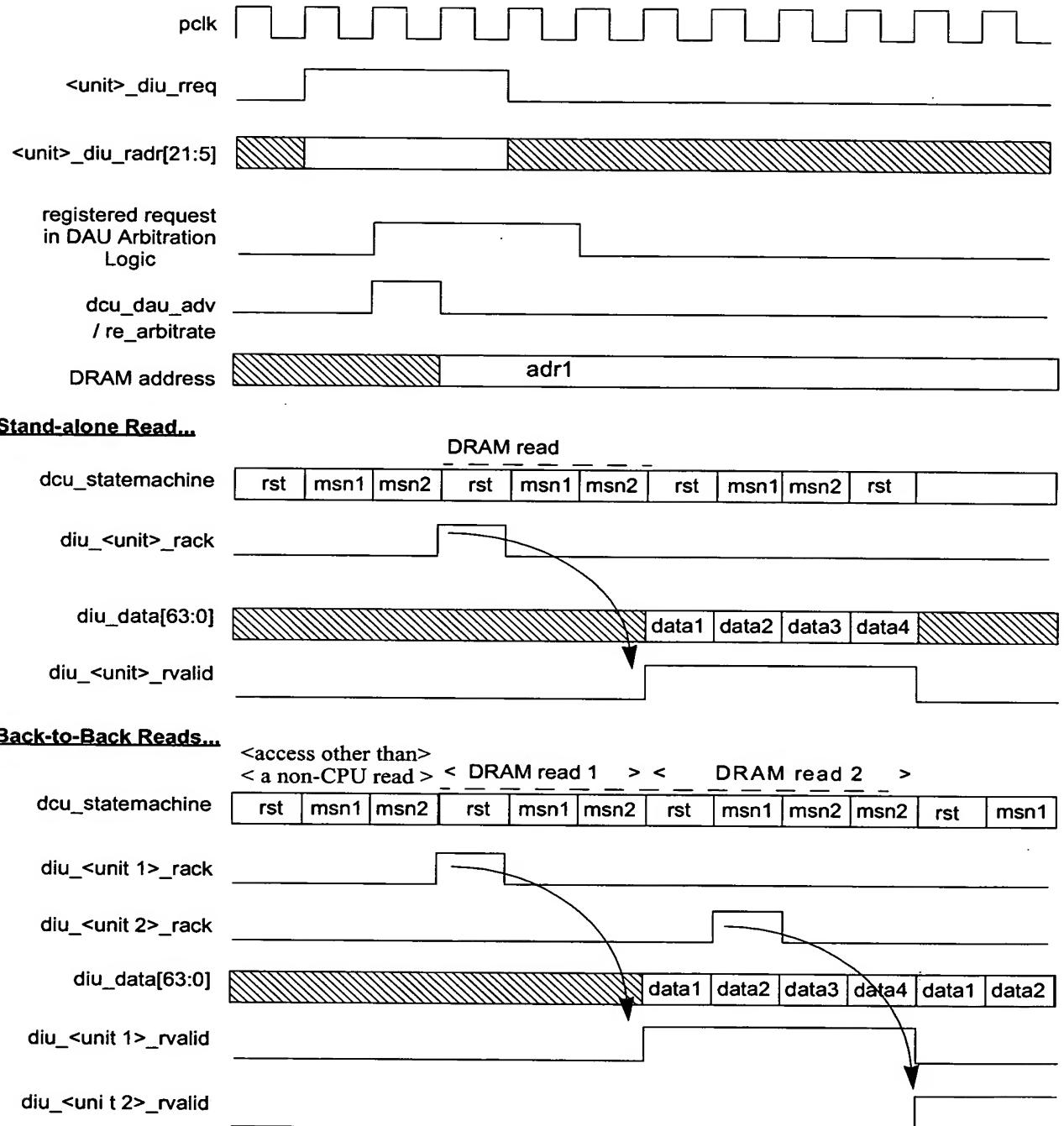


FIG. 109

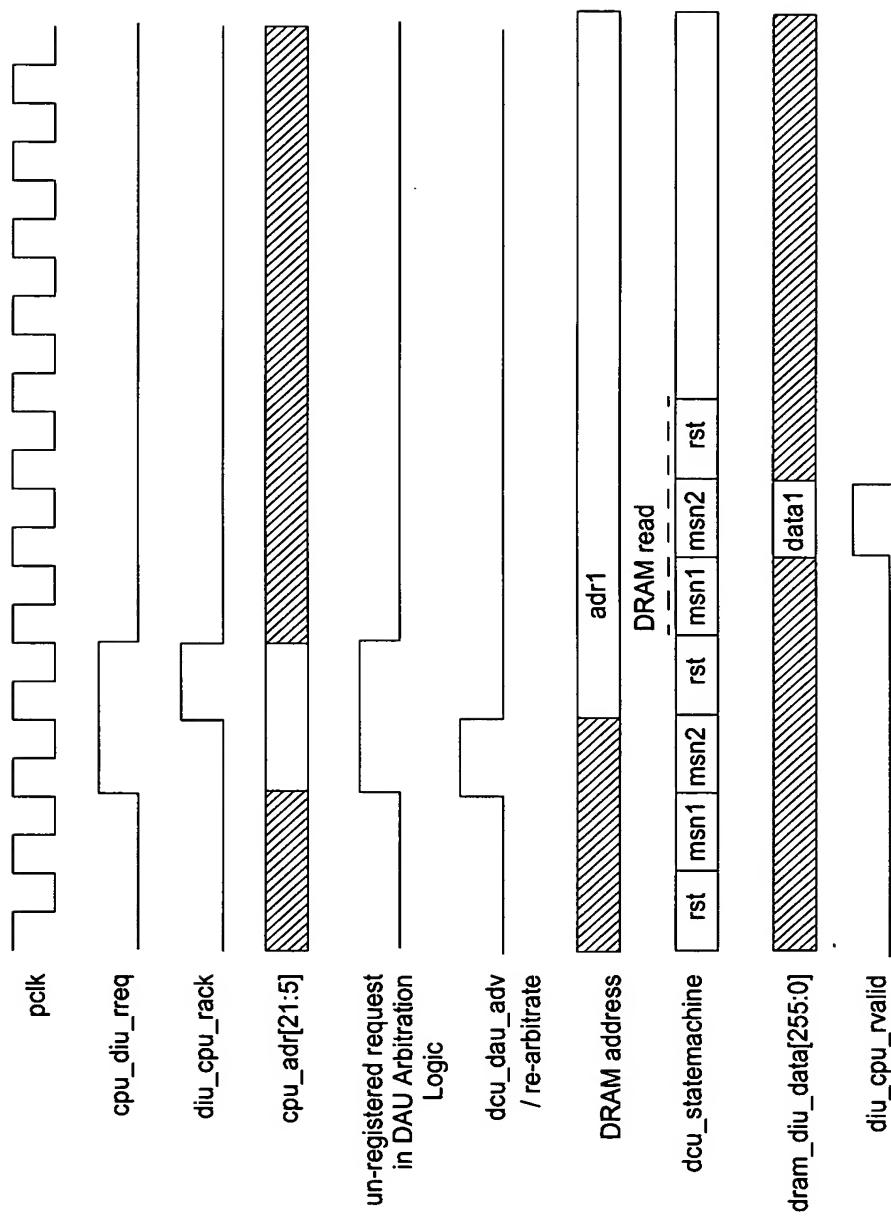


FIG. 110

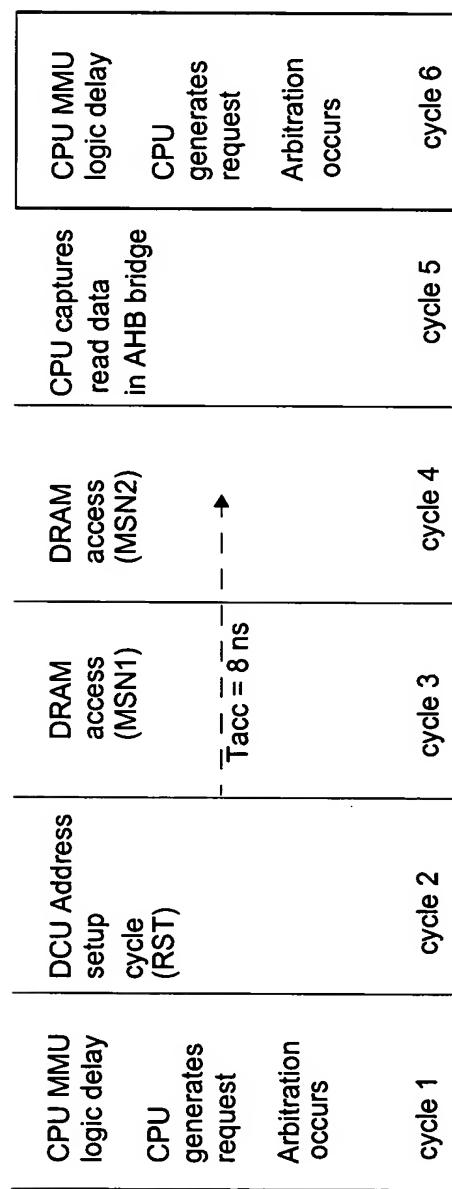
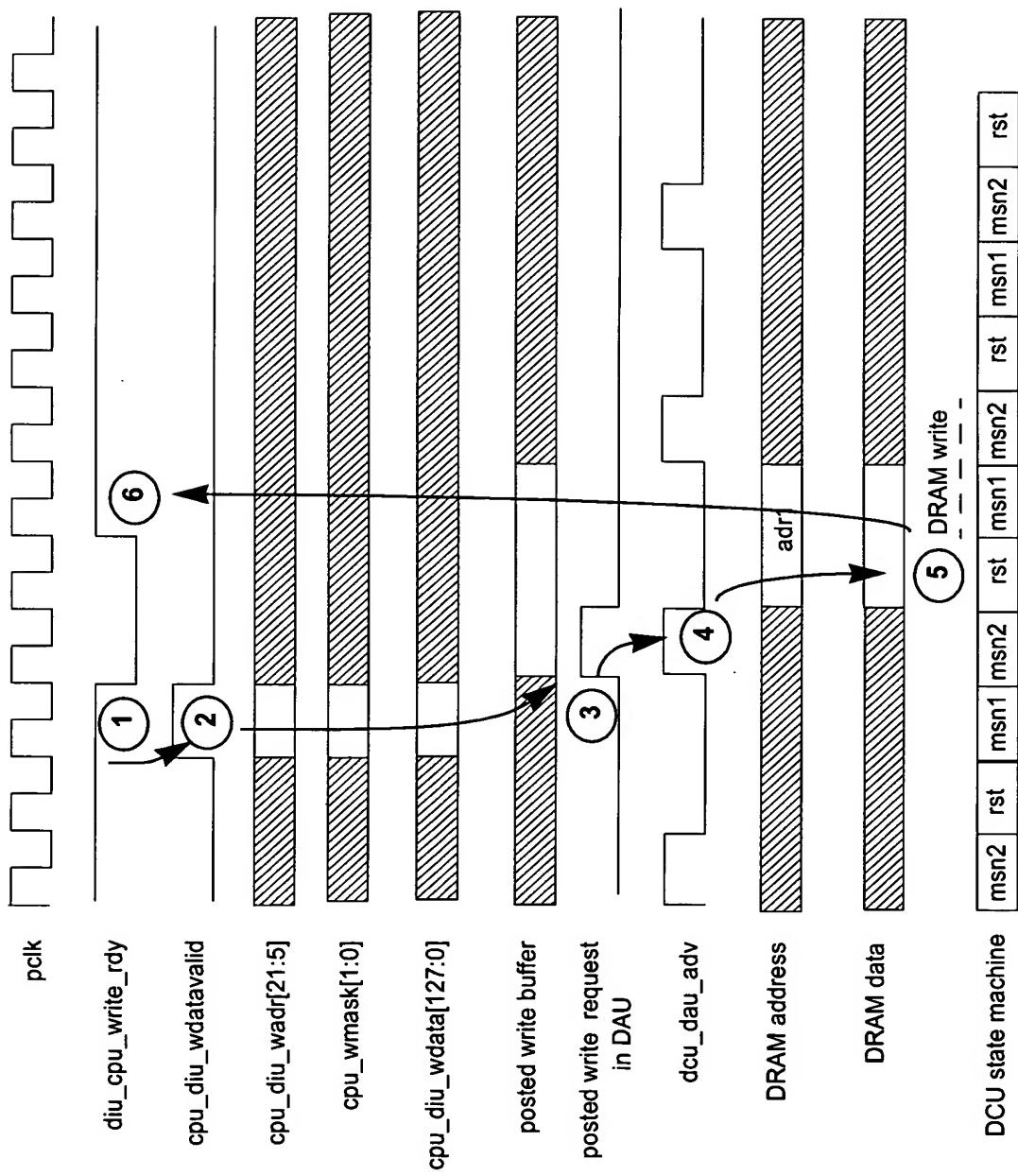


FIG. 111



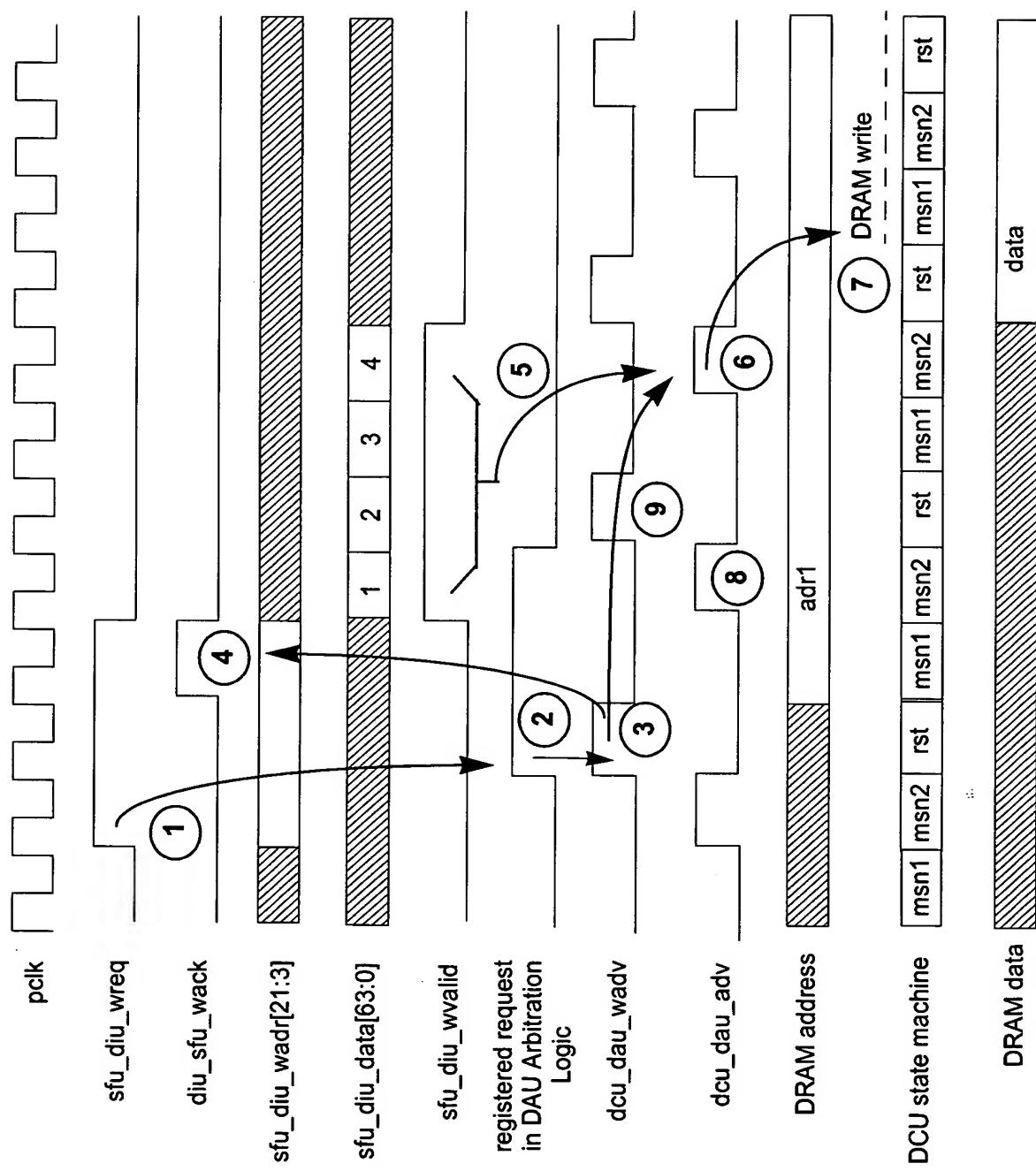


FIG. 113

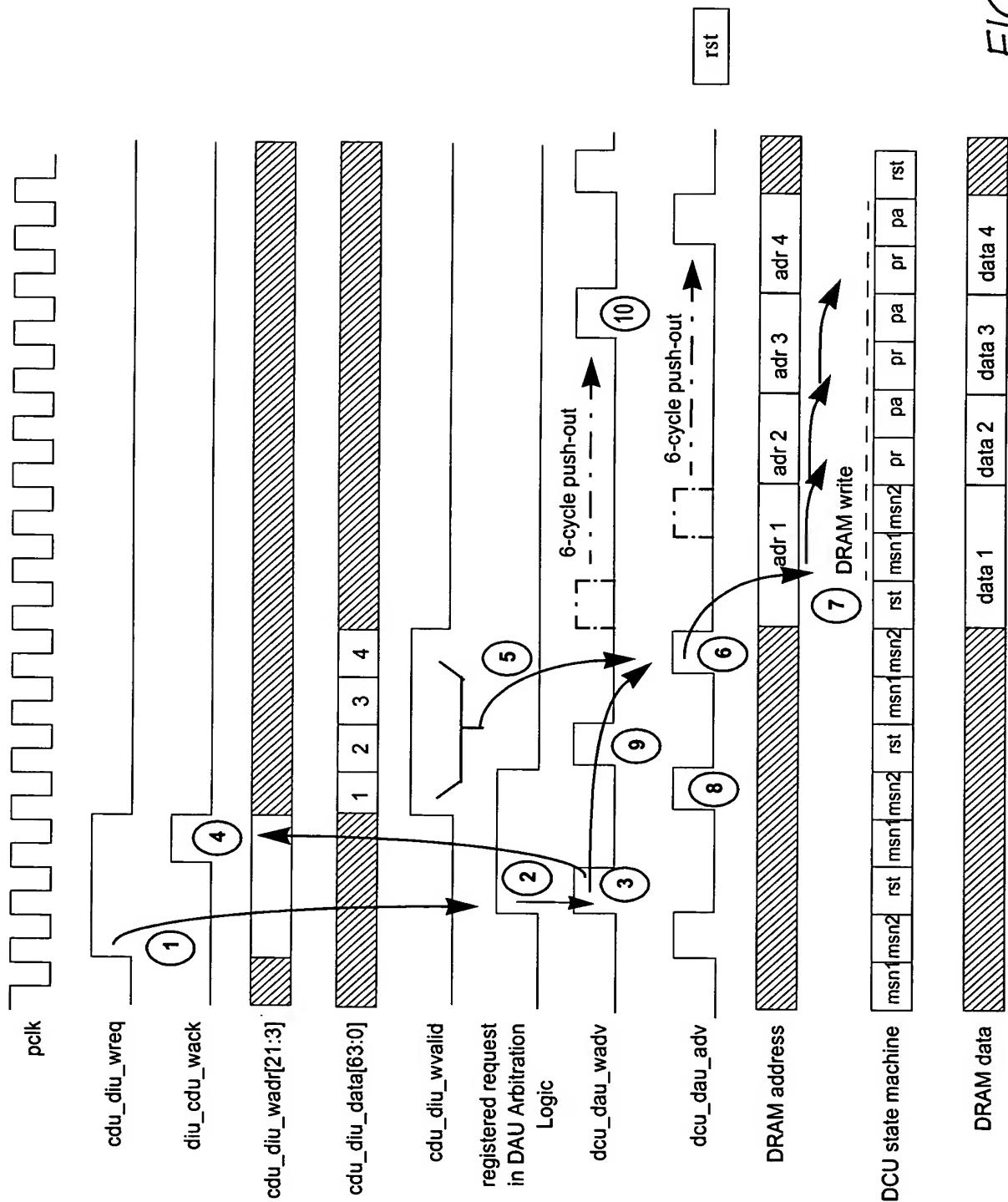
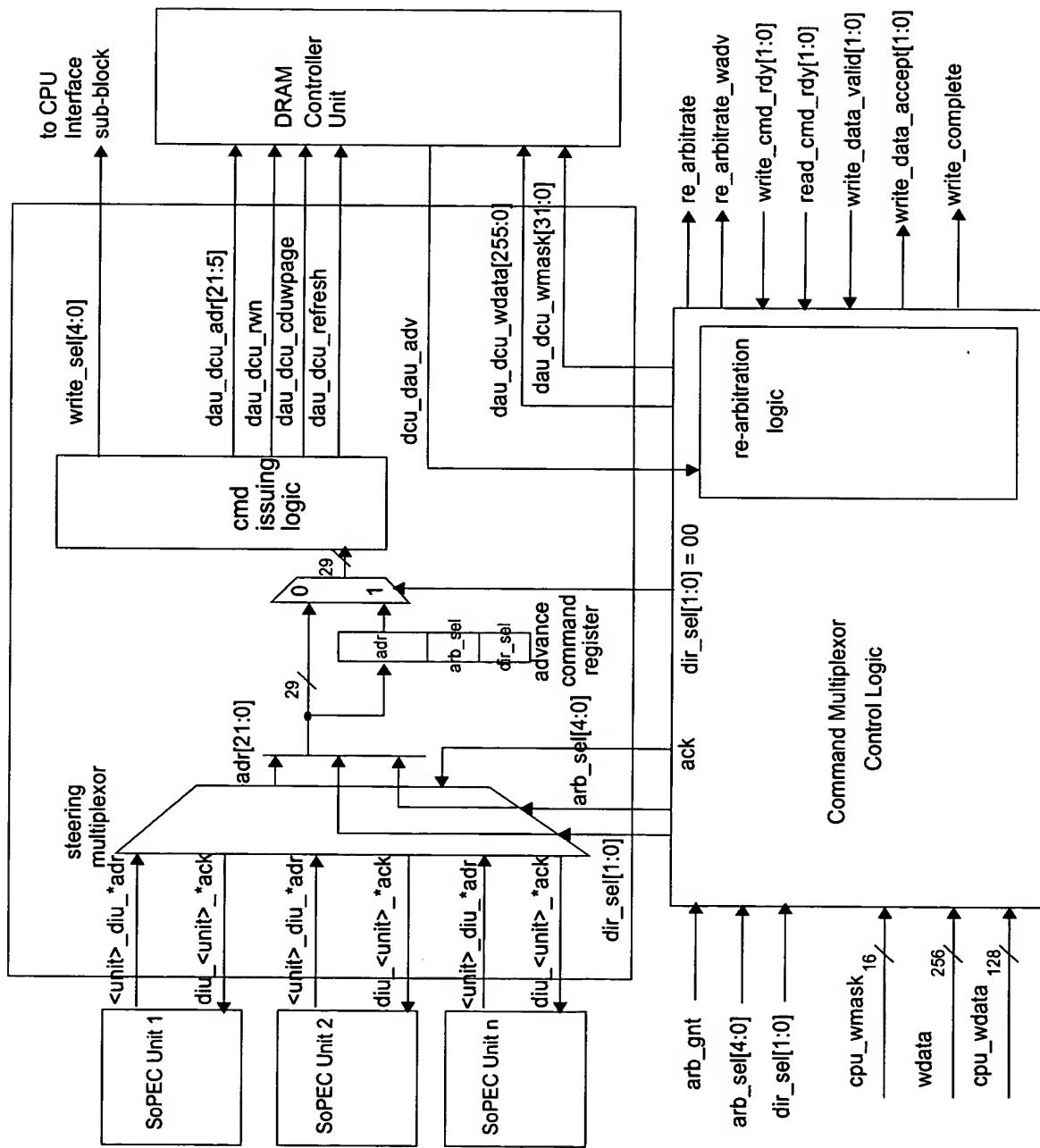


FIG. 114

FIG. 115



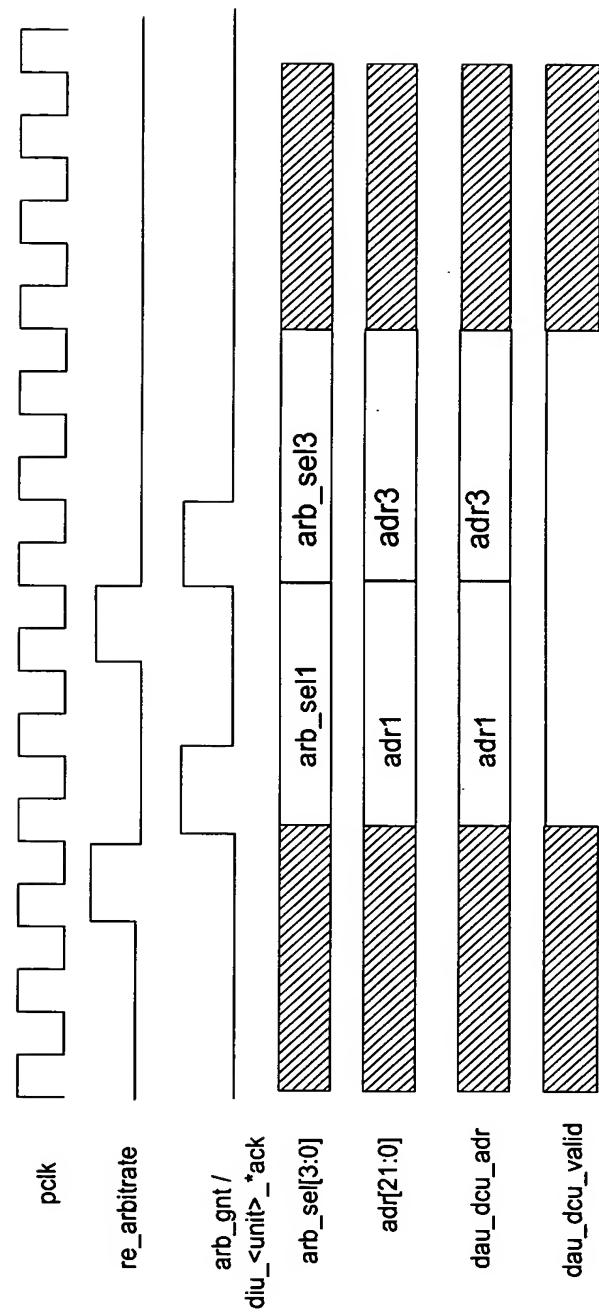


FIG. 116

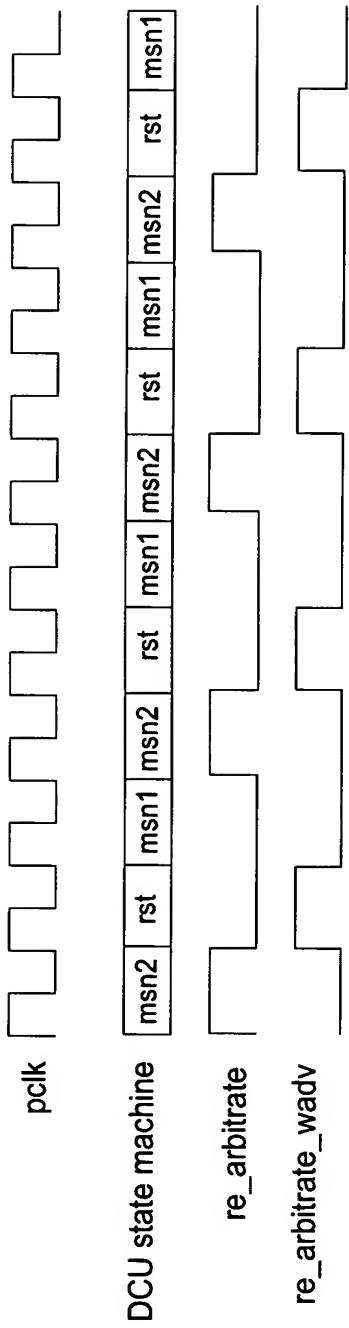


FIG. 117

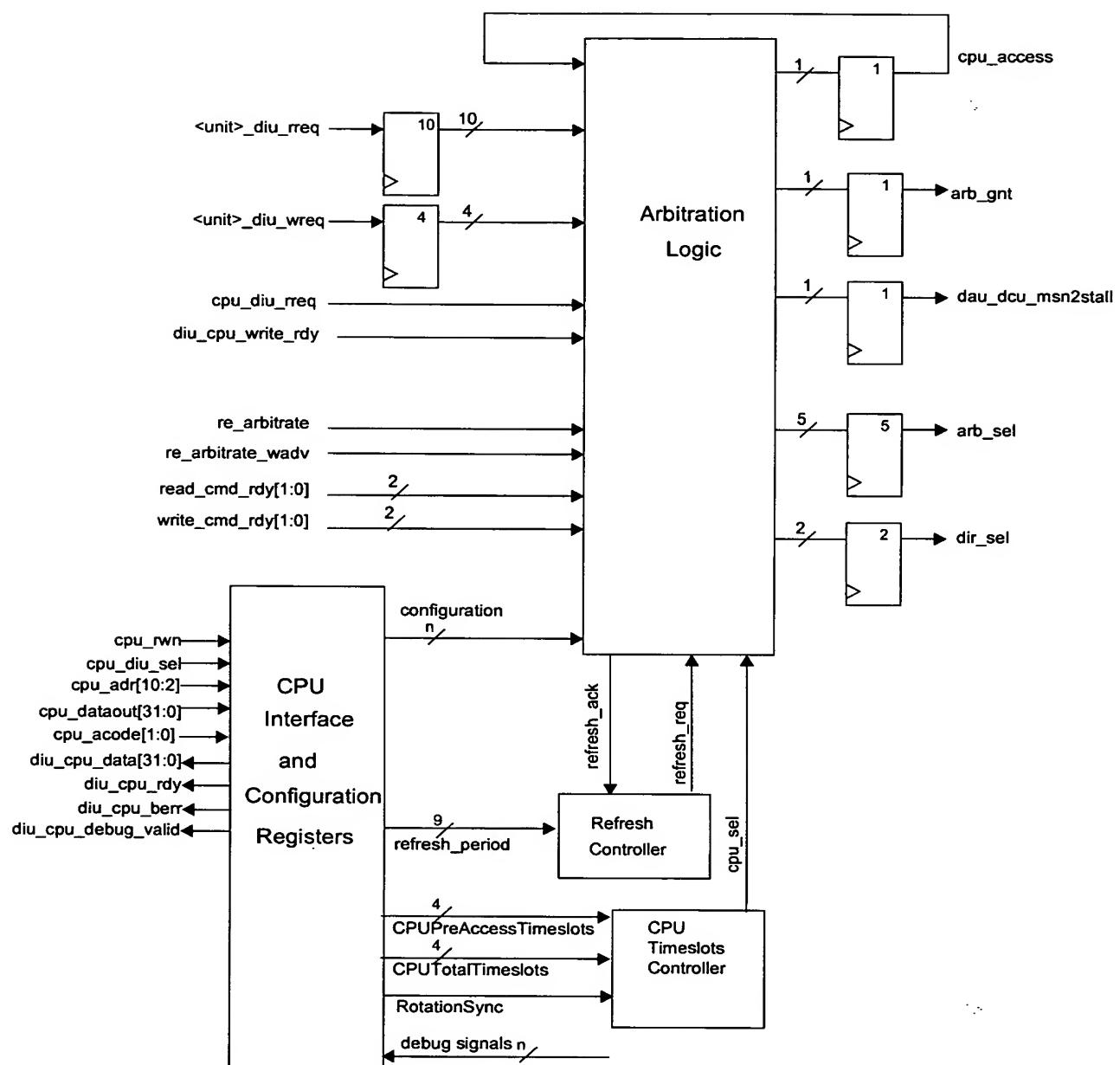


FIG. 118

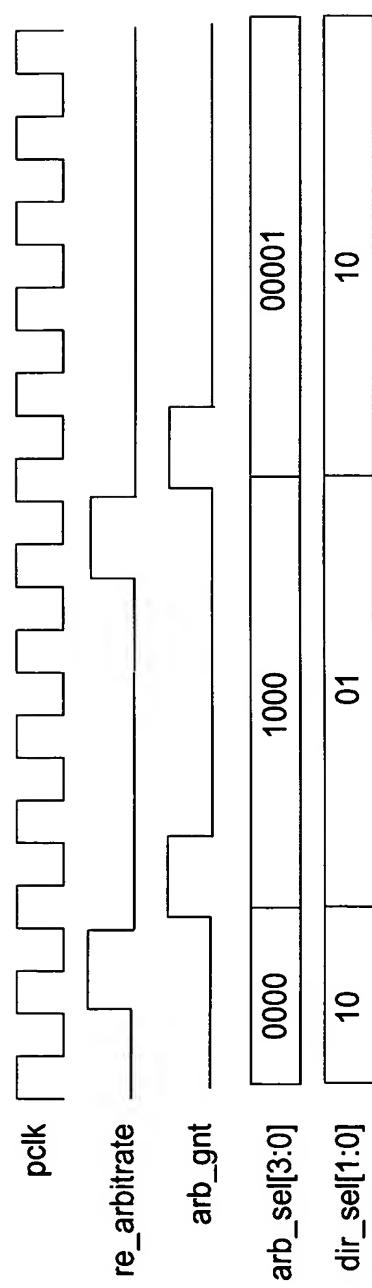


FIG. 119

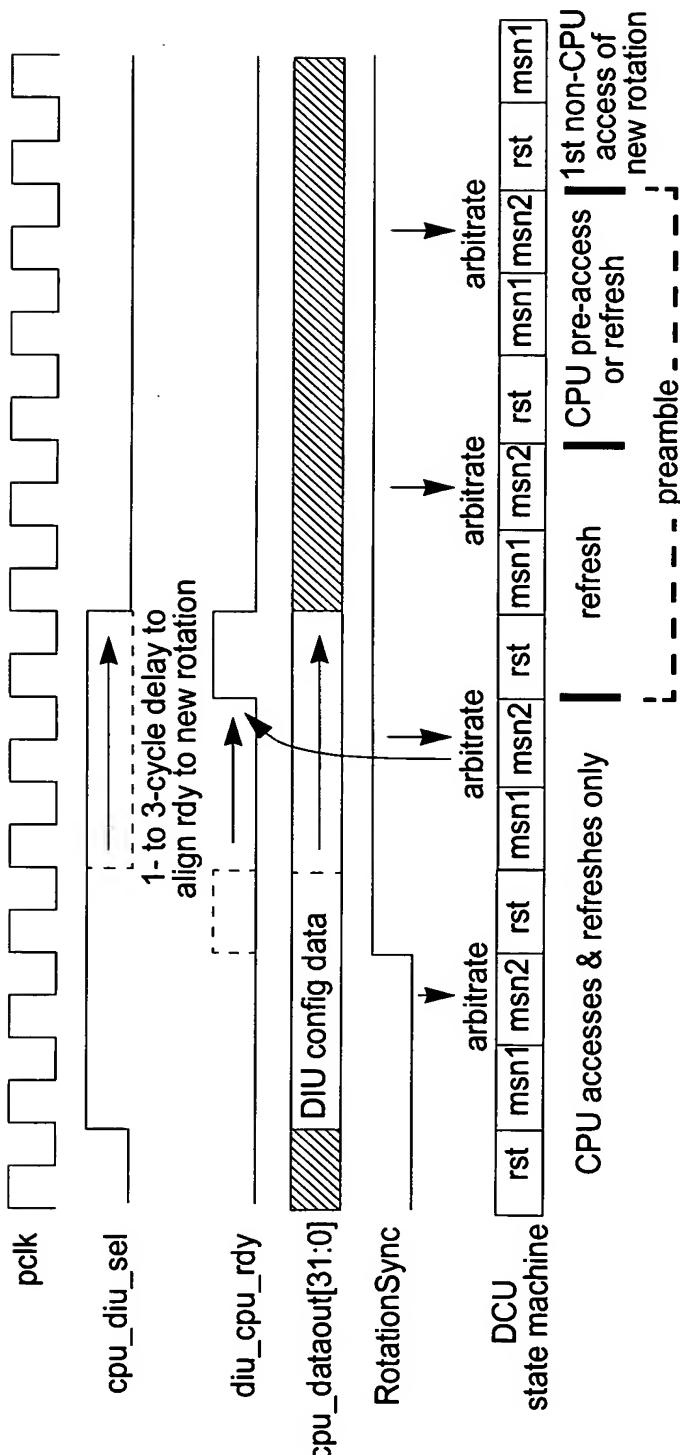


FIG. 120

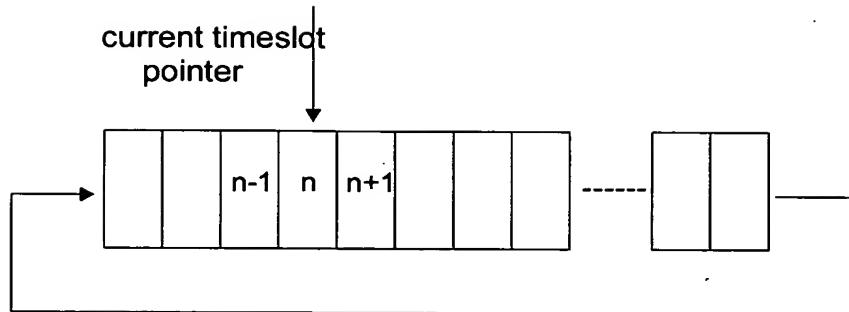


FIG. 121

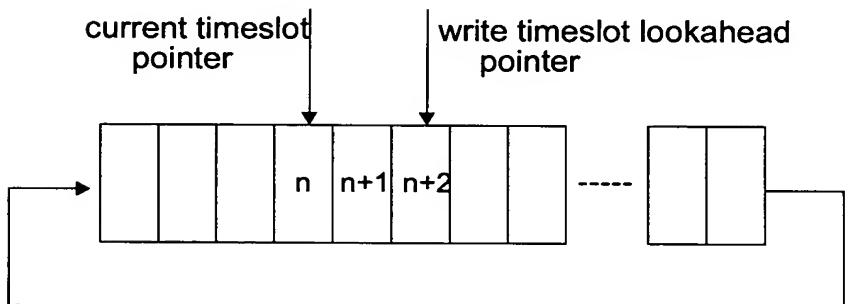


FIG. 122

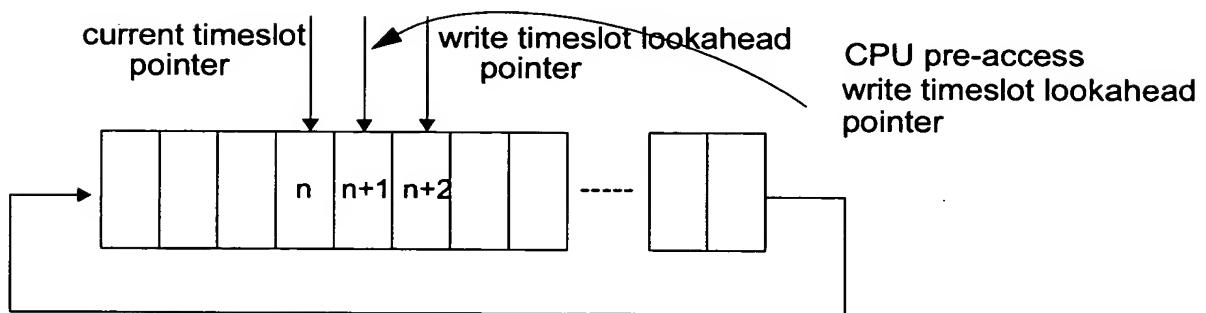


FIG. 123

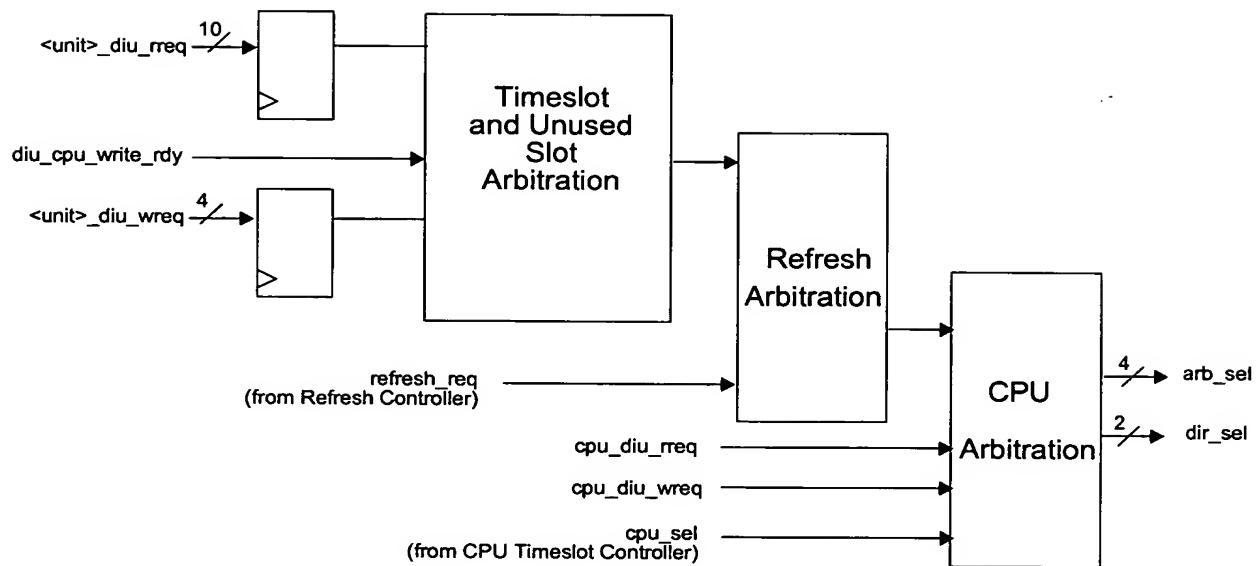


FIG. 124

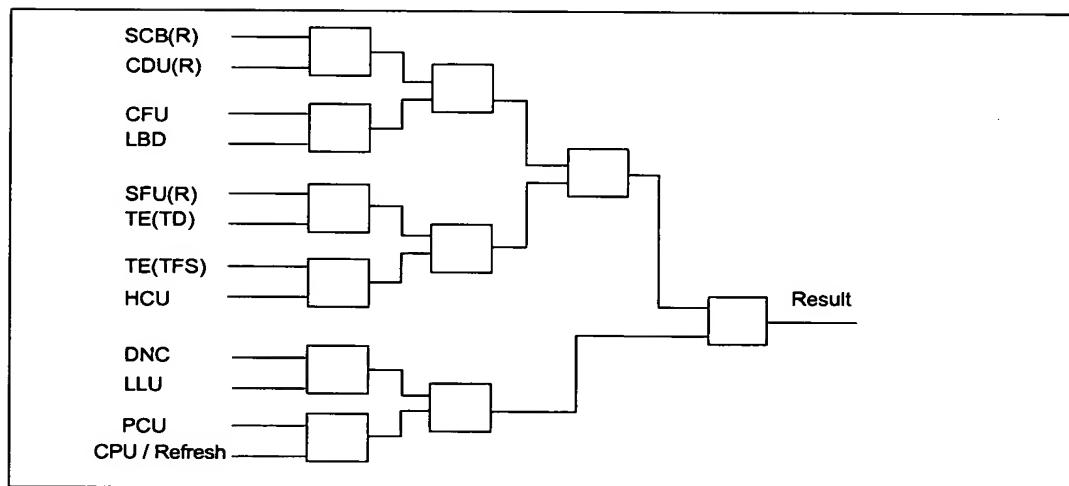


FIG. 125

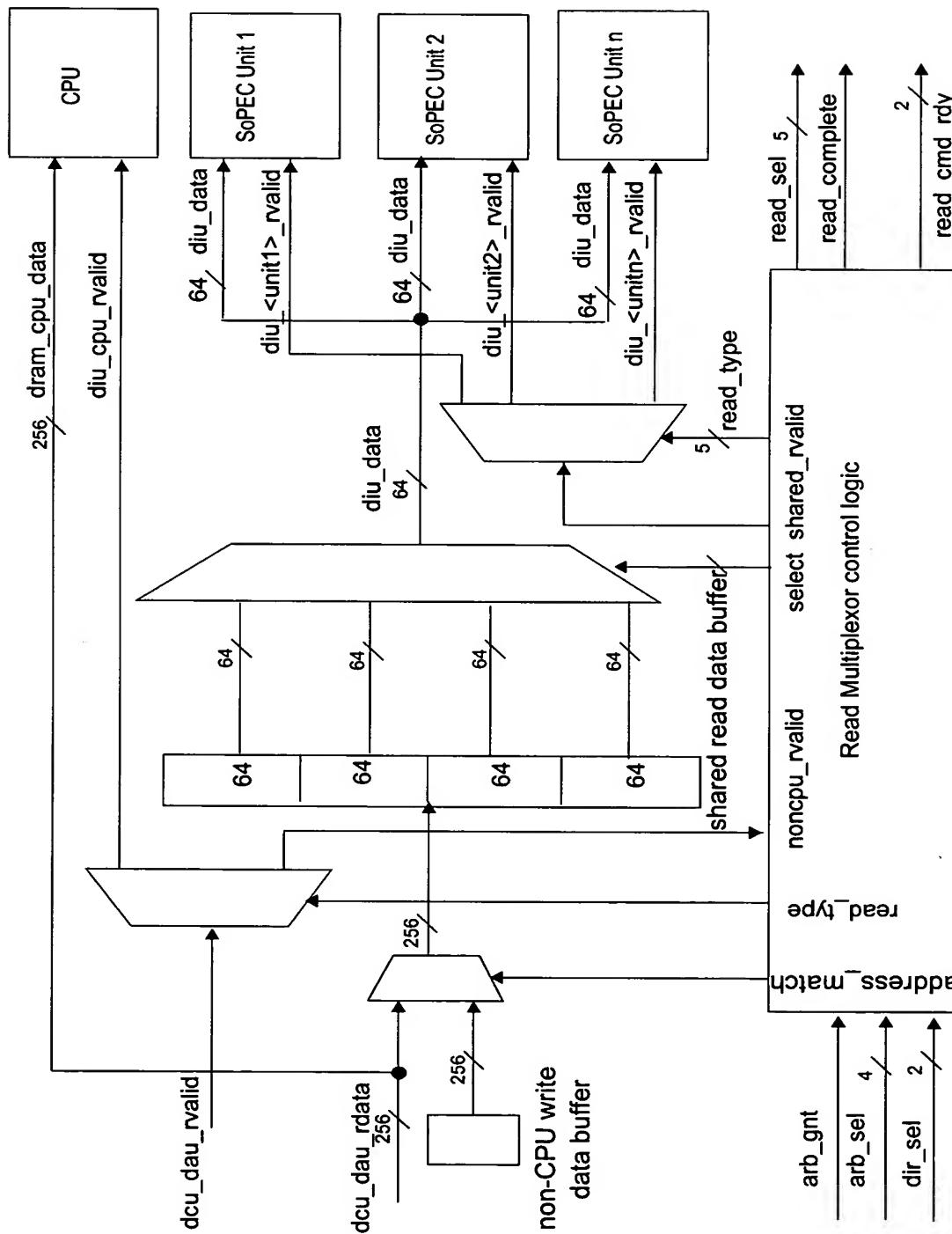


FIG. 126

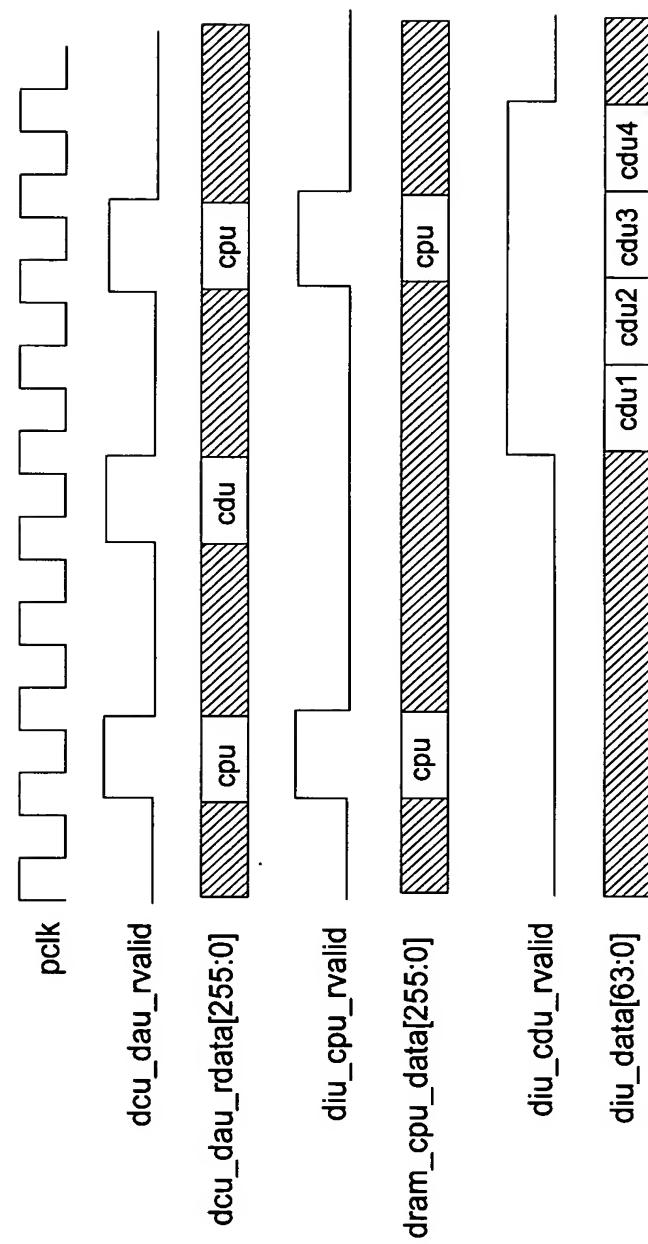


FIG. 127

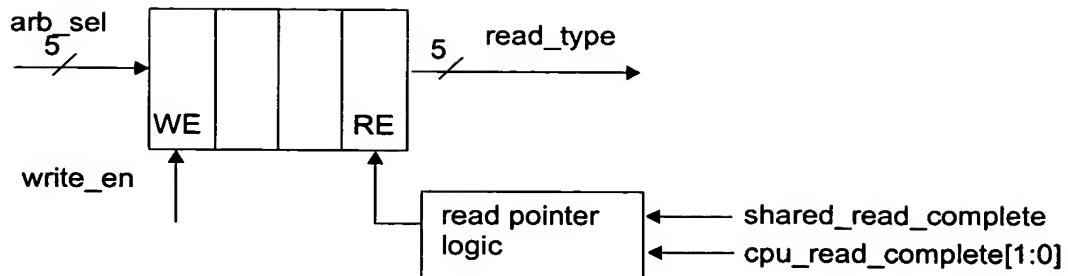


FIG. 128

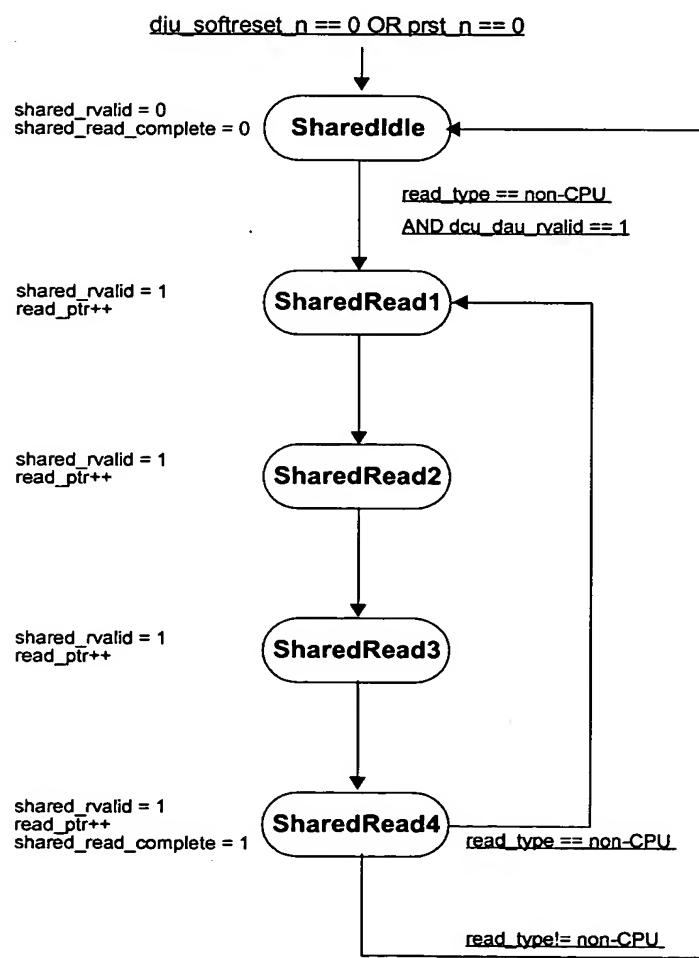


FIG. 129

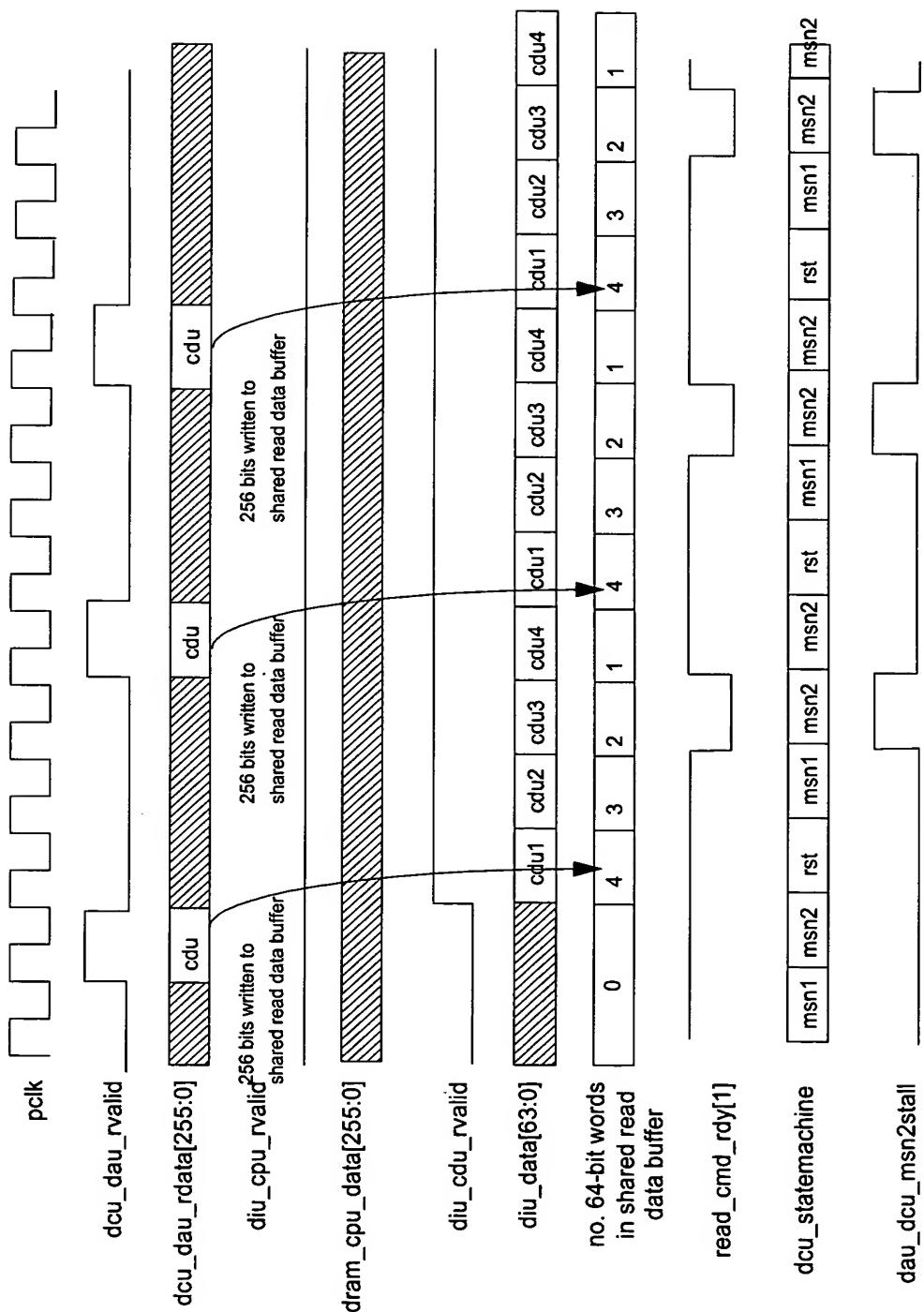


FIG. 130

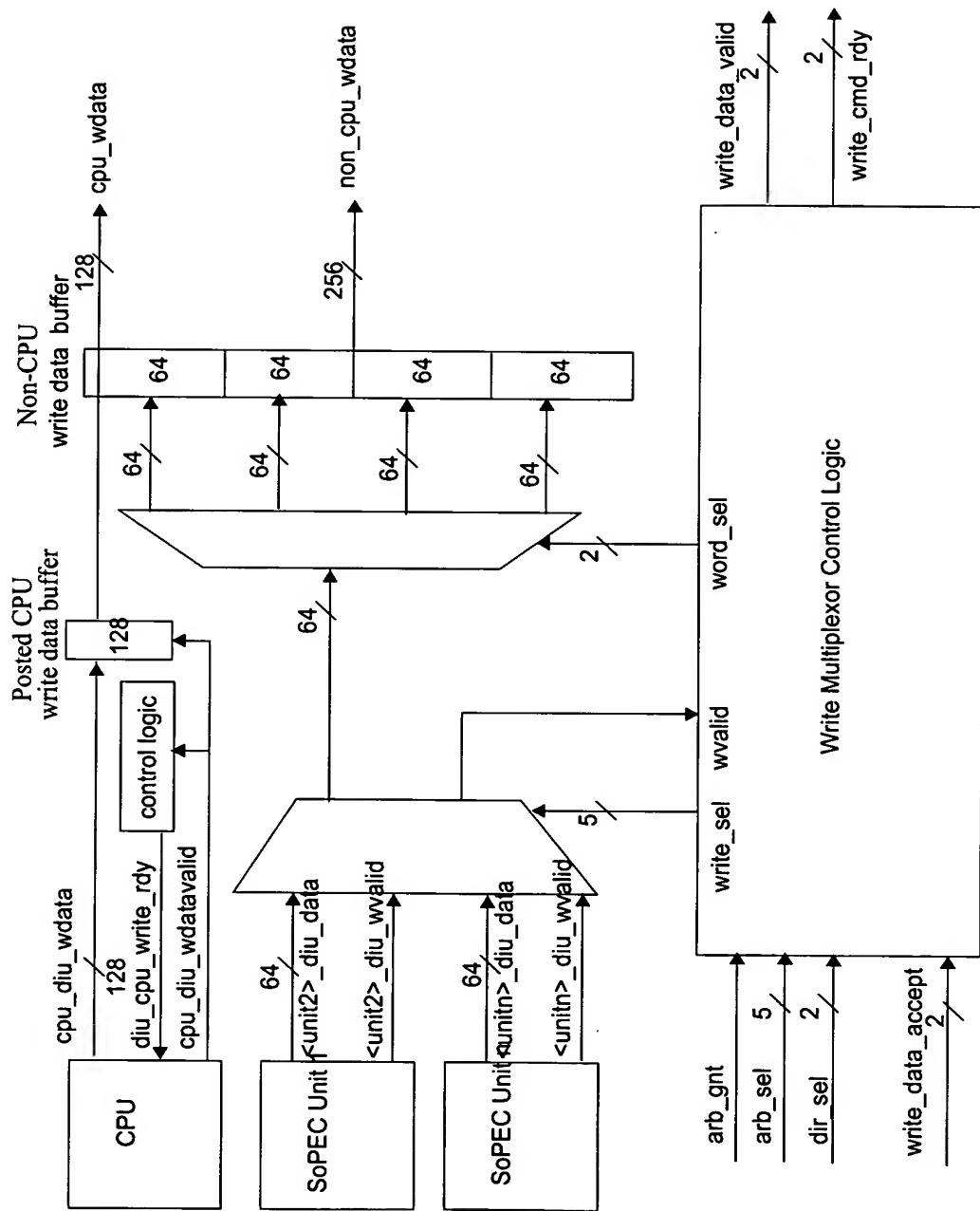


FIG. 131

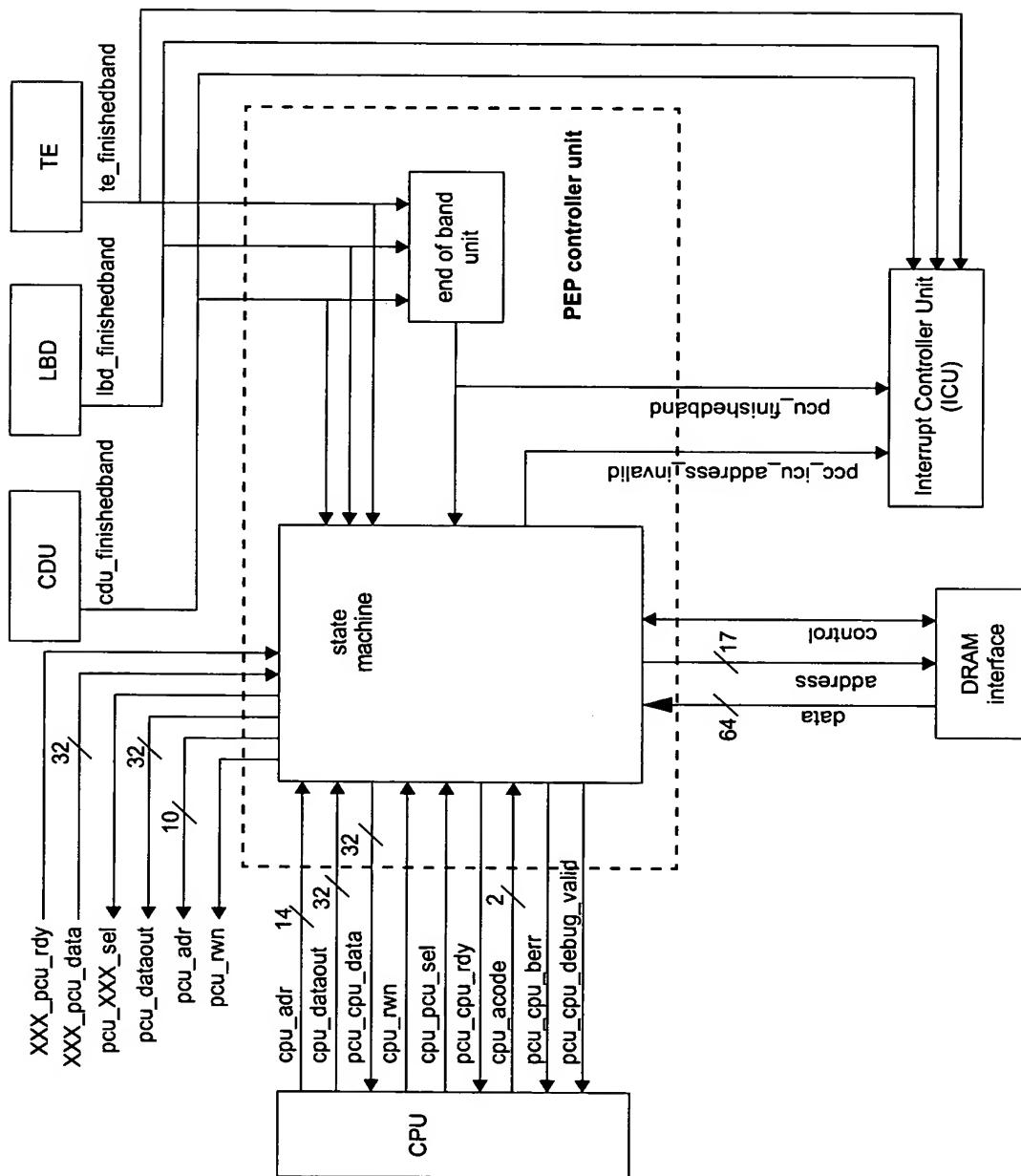


FIG. 132

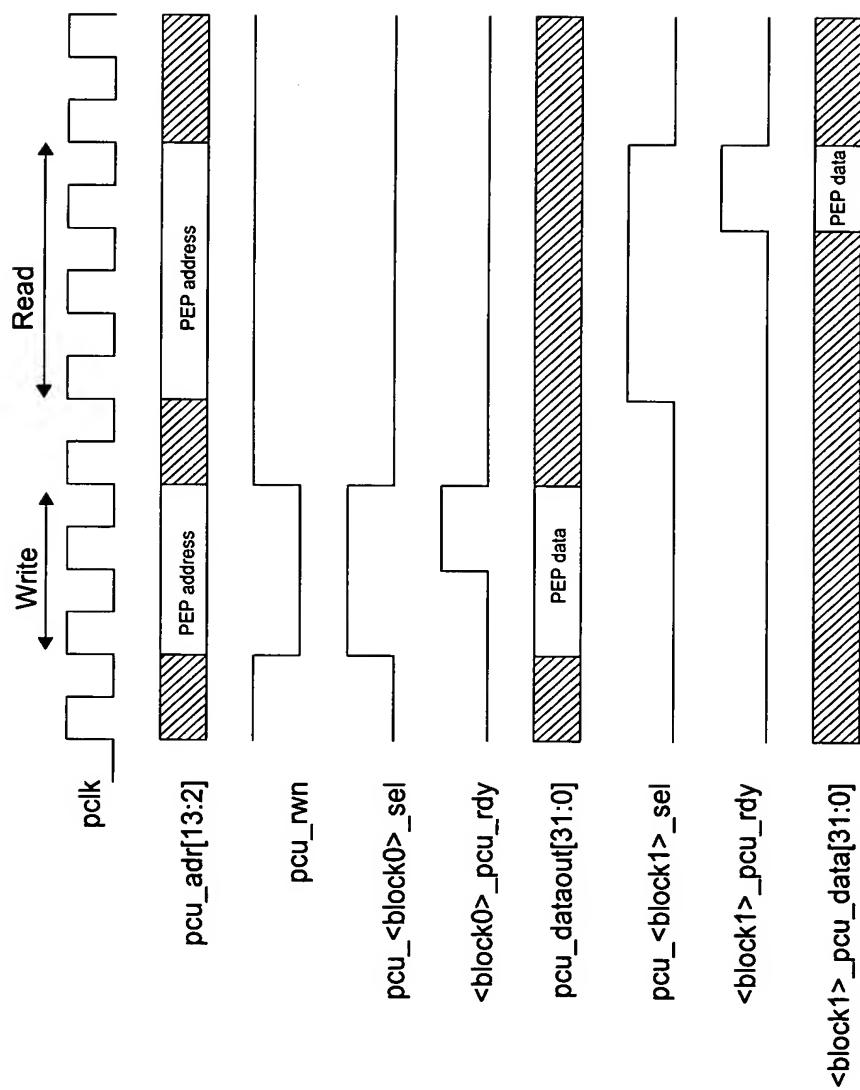


FIG. 133

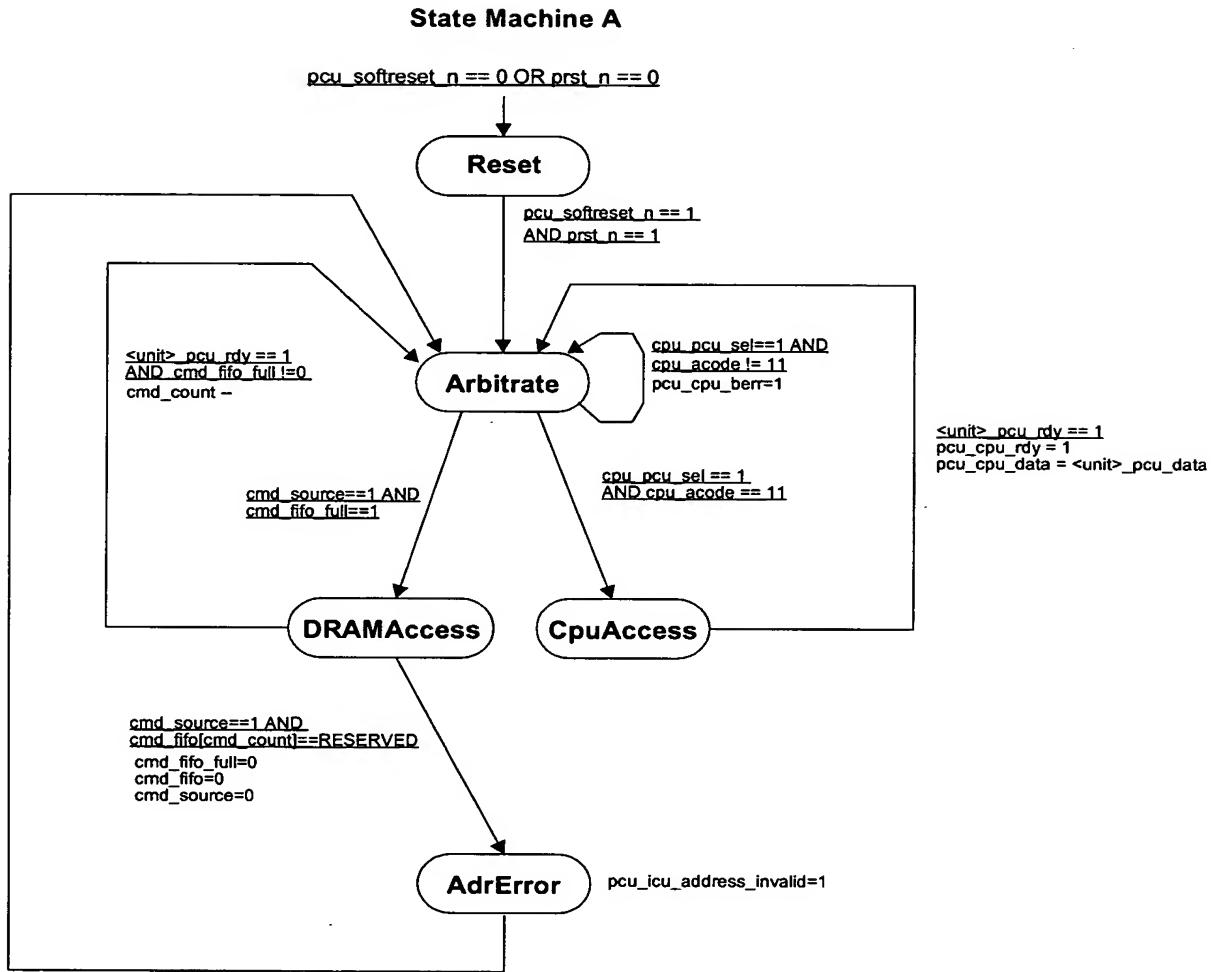


FIG. 134

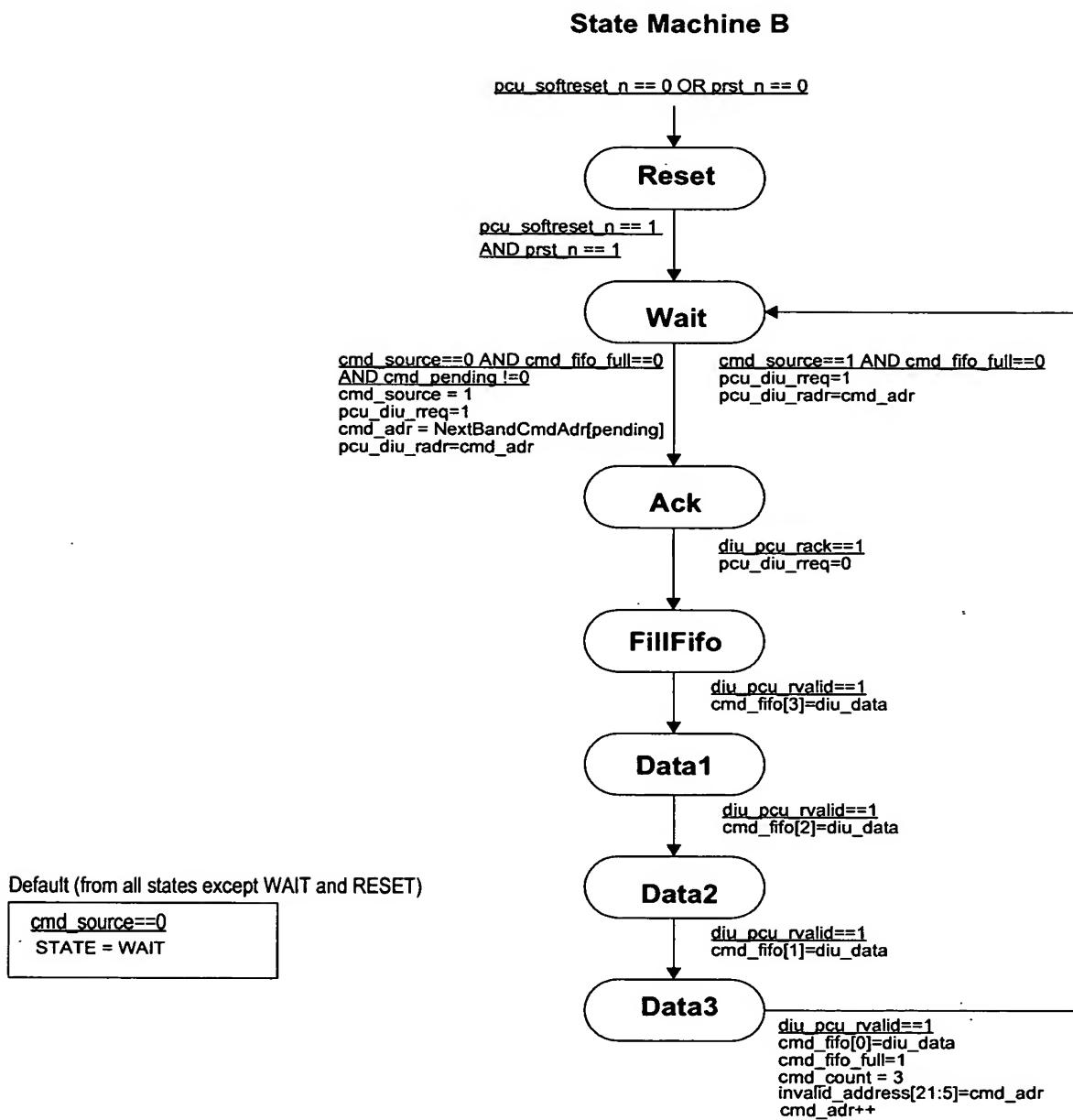
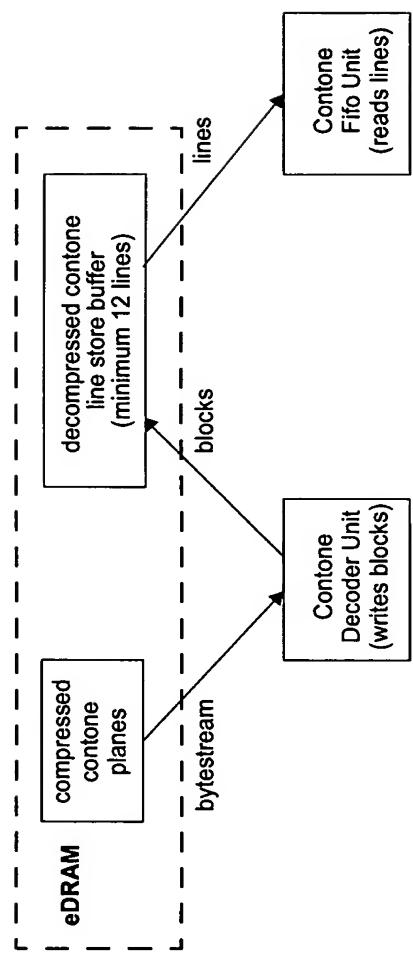


FIG. 135

FIG. 136



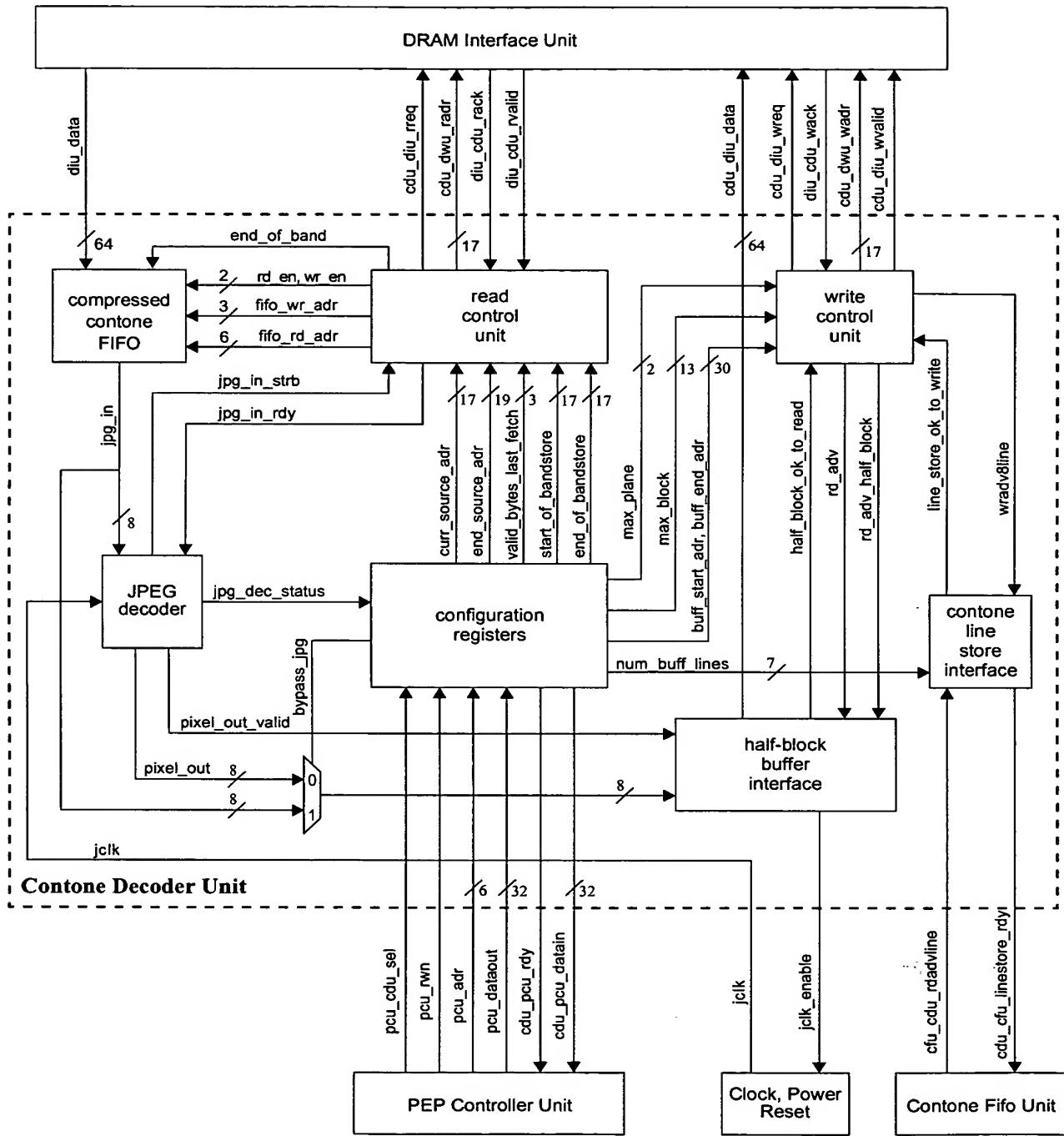


FIG. 137

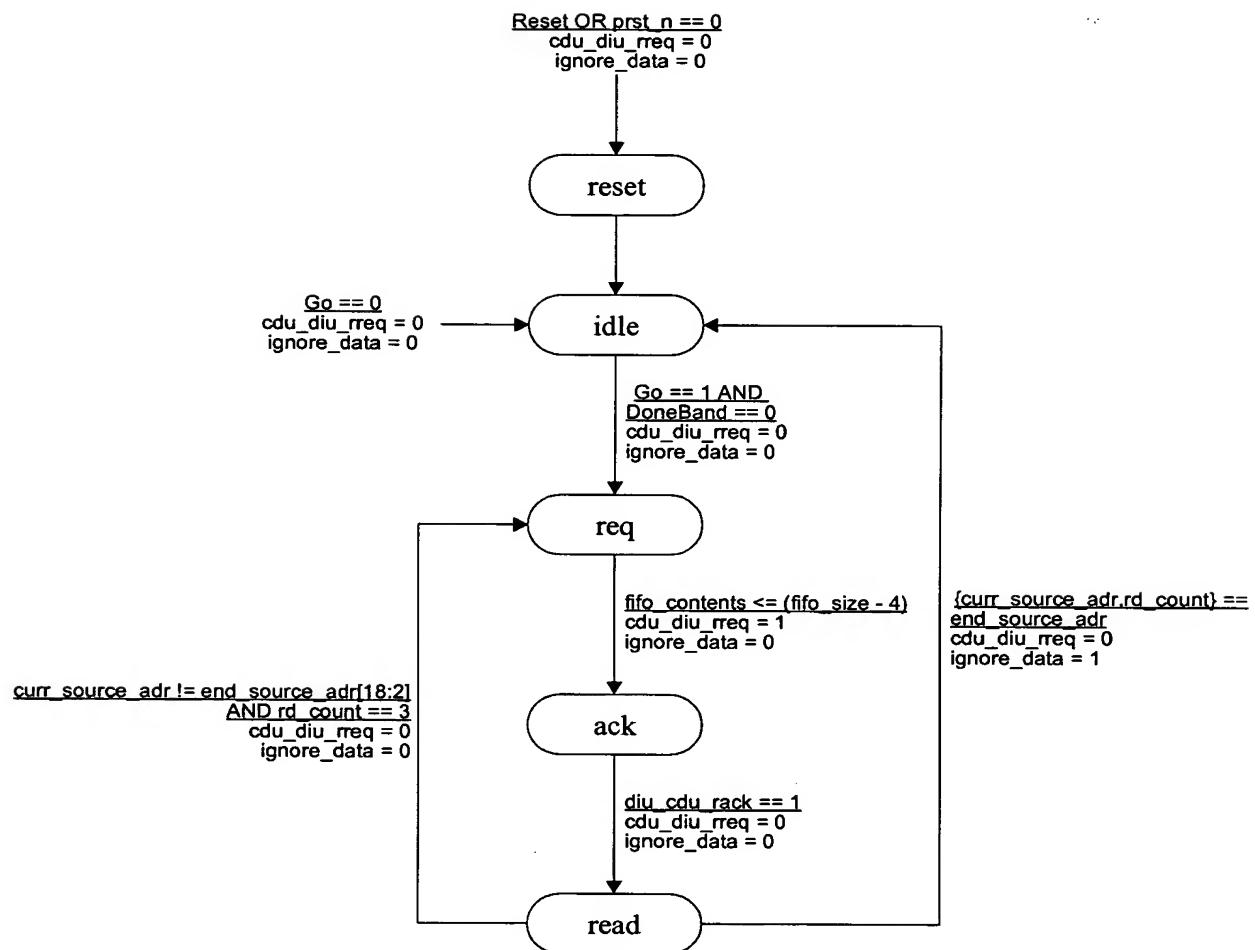


FIG. 138

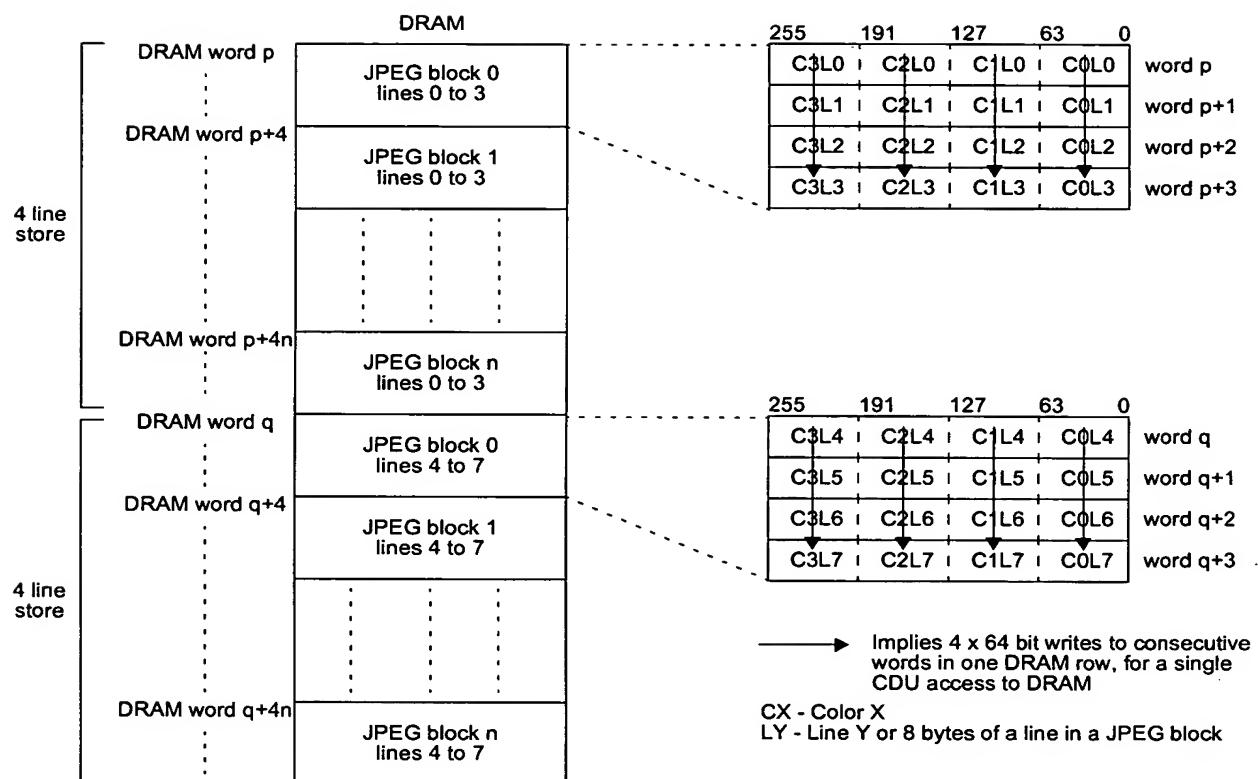


FIG. 139

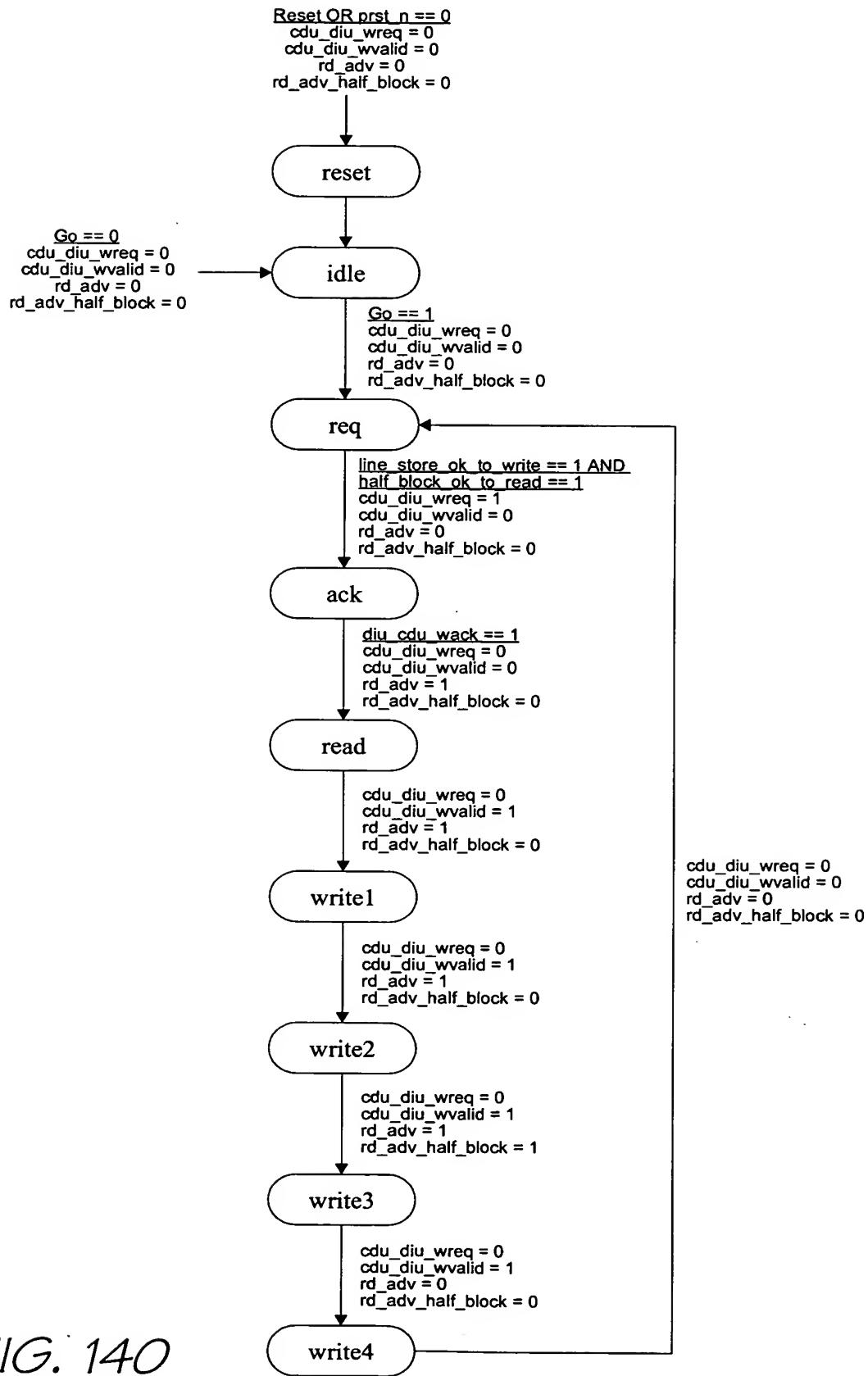


FIG. 140

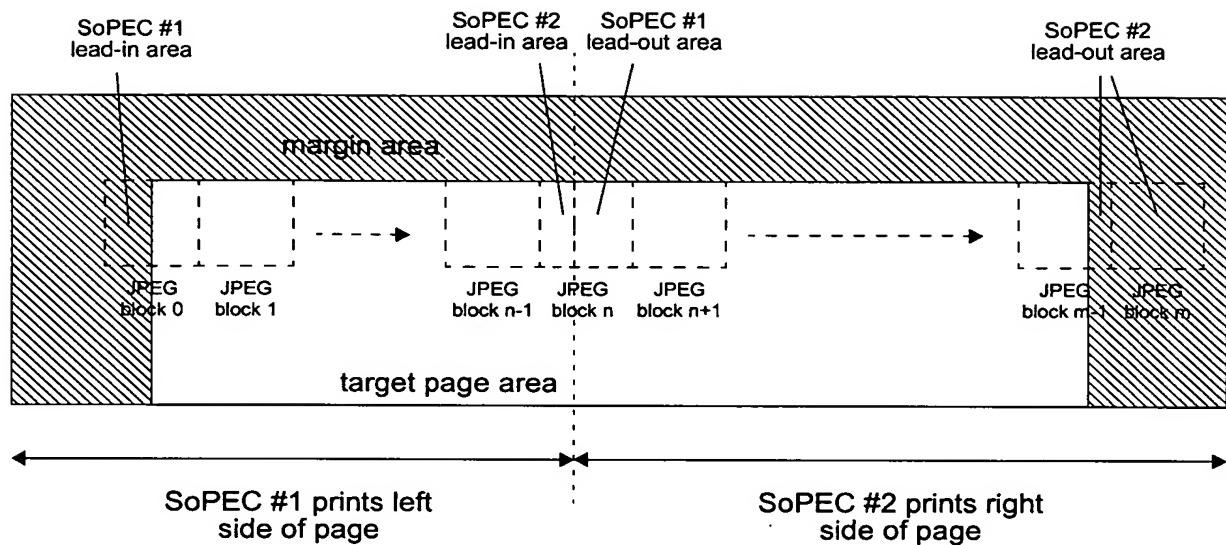


FIG. 141

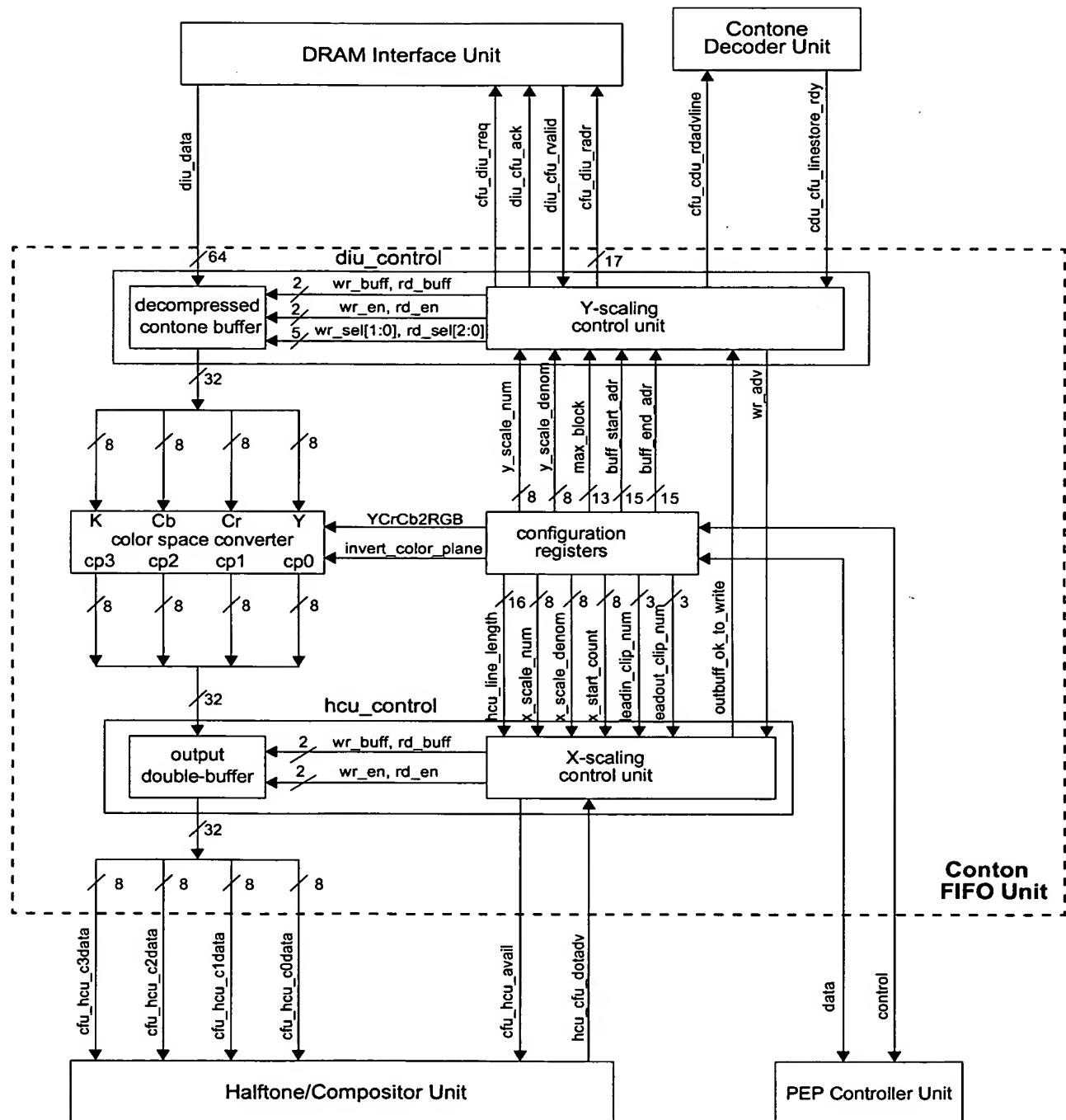


FIG. 142

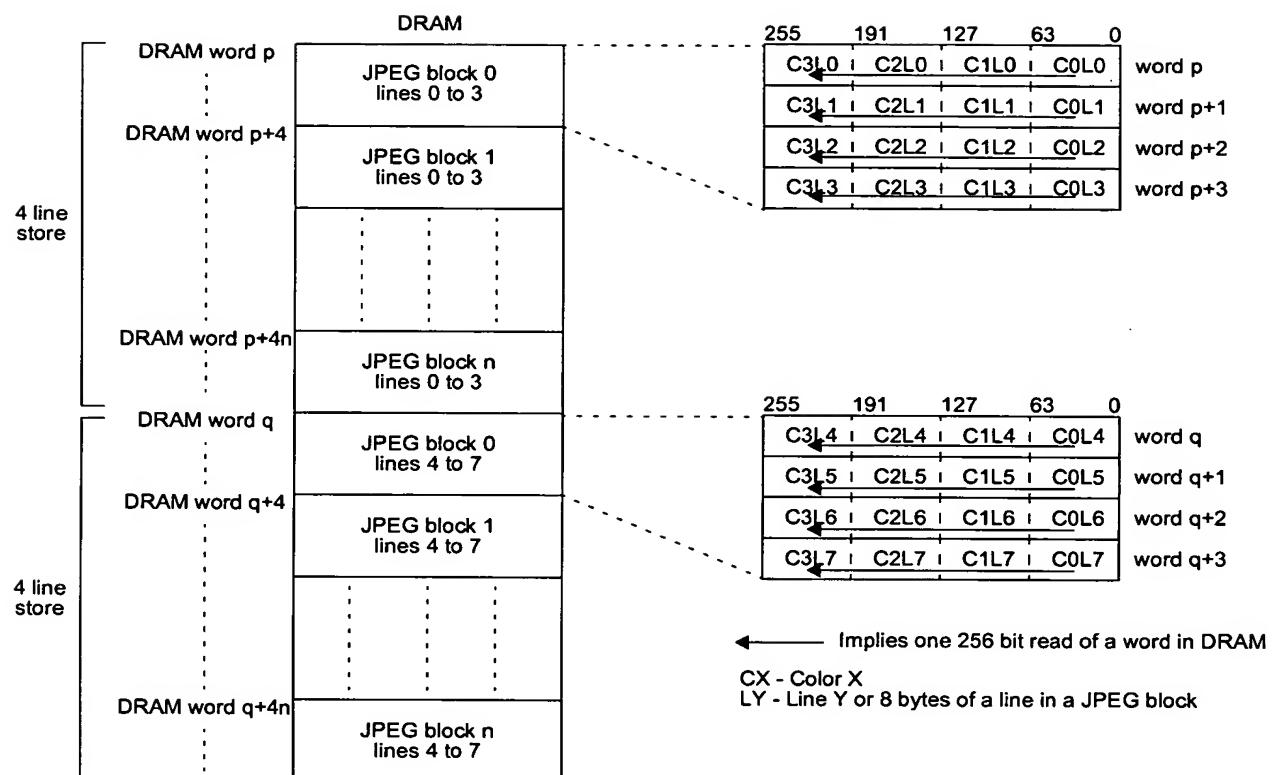


FIG. 143

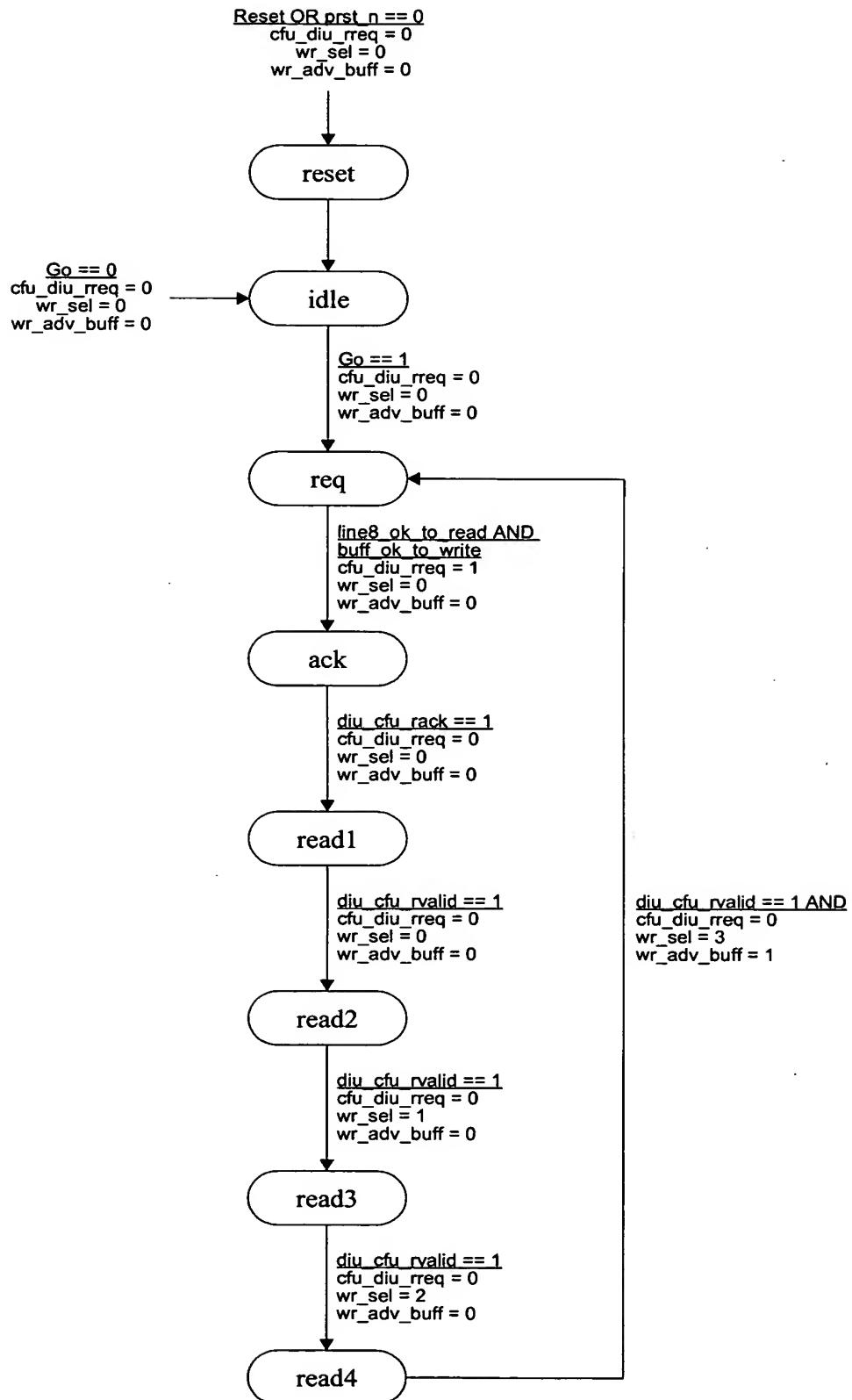


FIG. 144

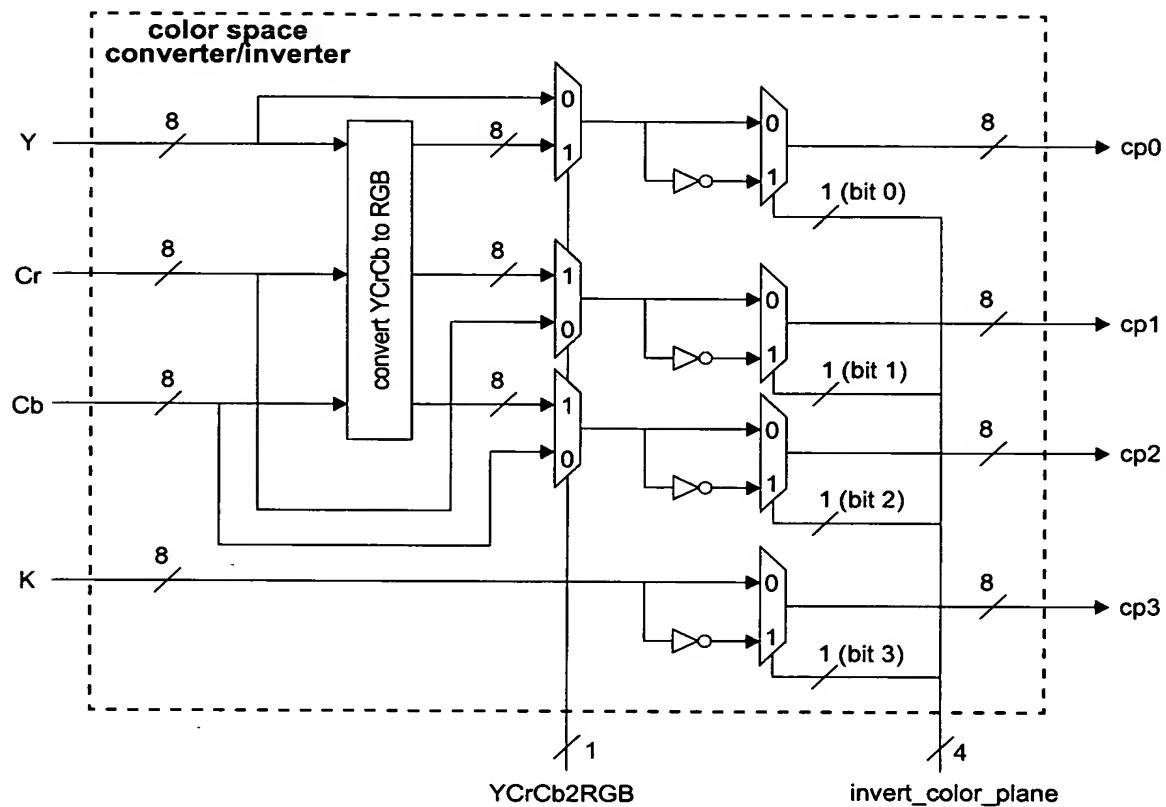


FIG. 145

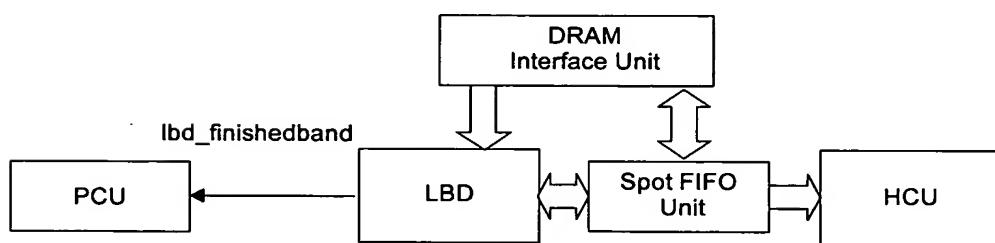


FIG. 146

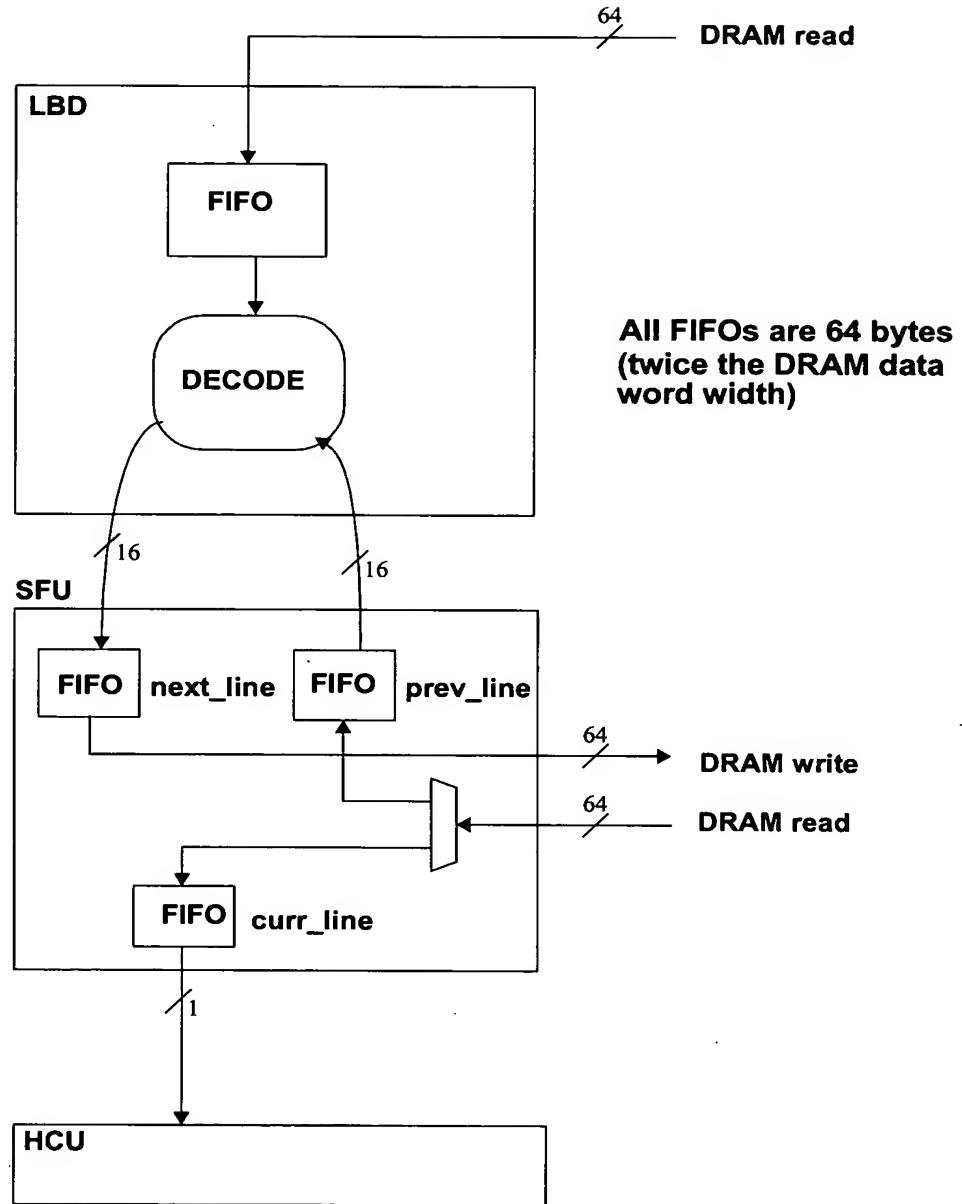


FIG. 147

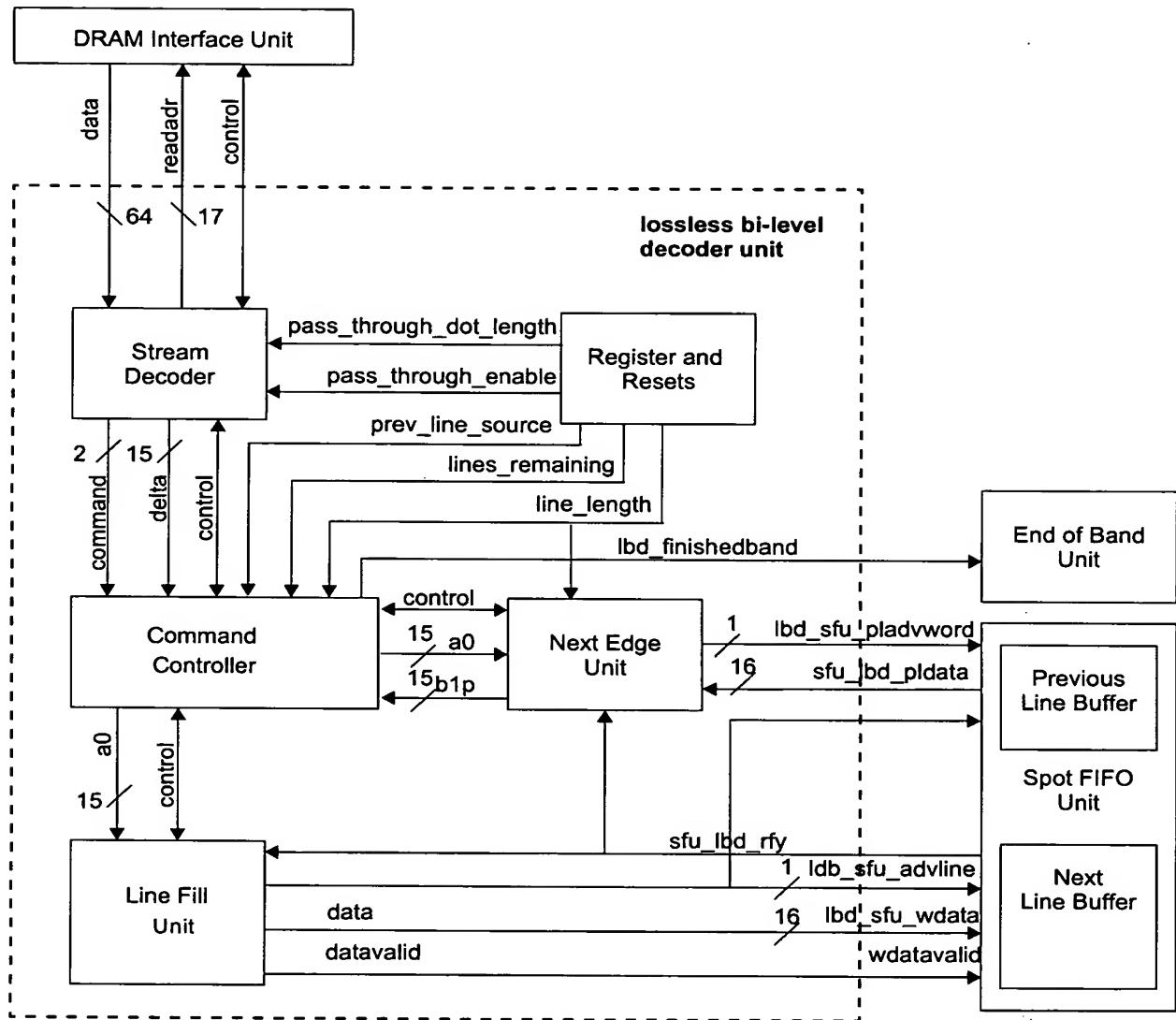


FIG. 148

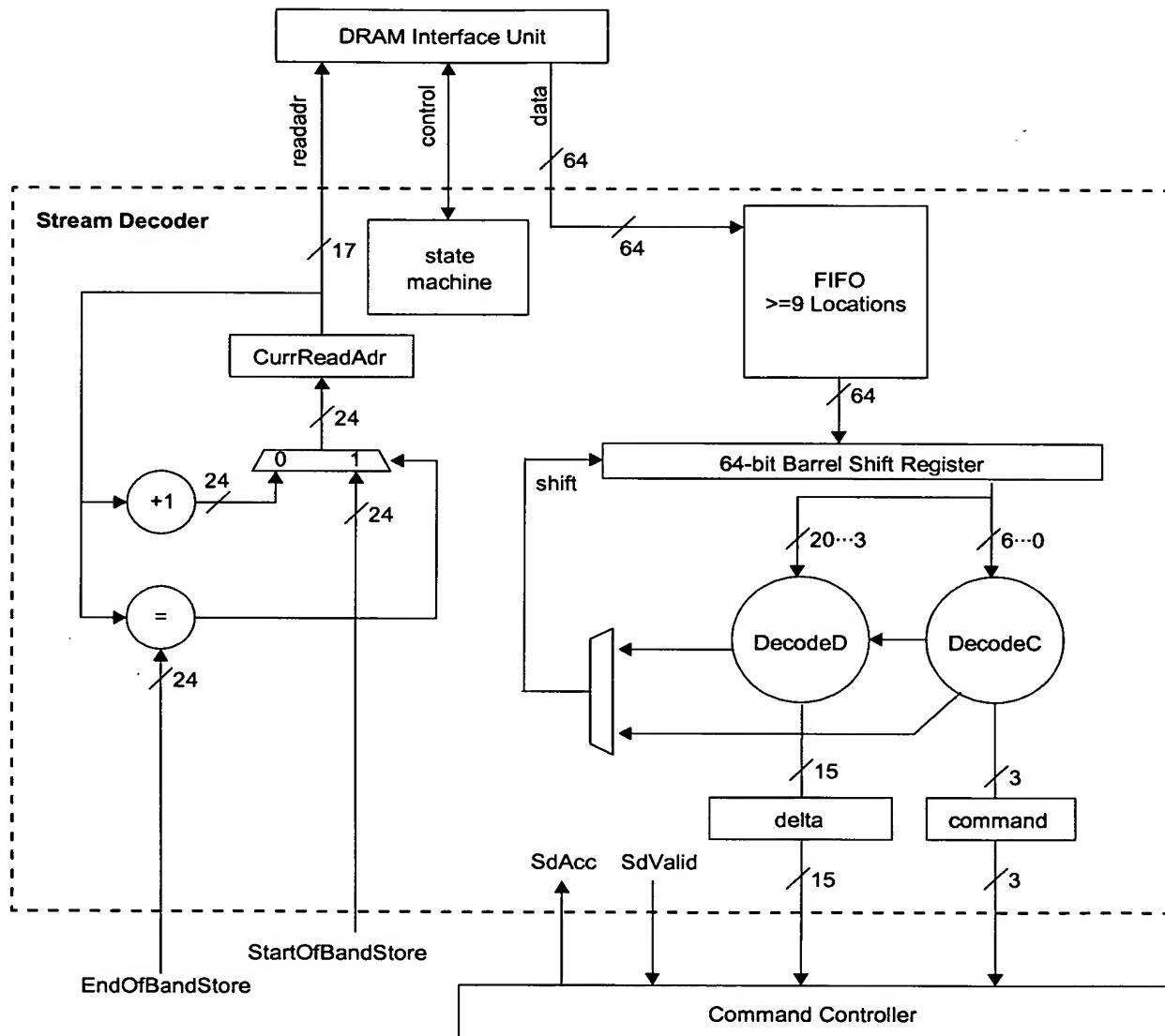


FIG. 149

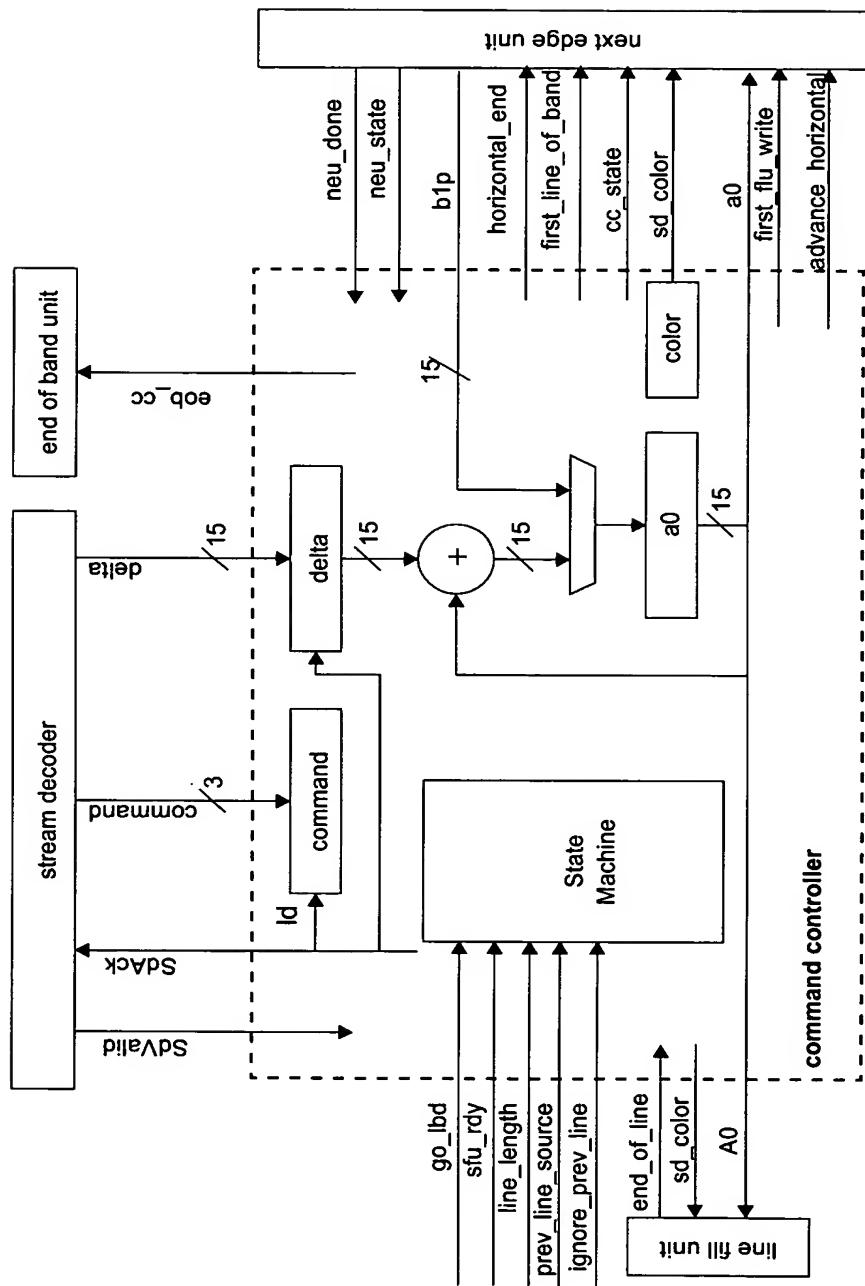


FIG. 150

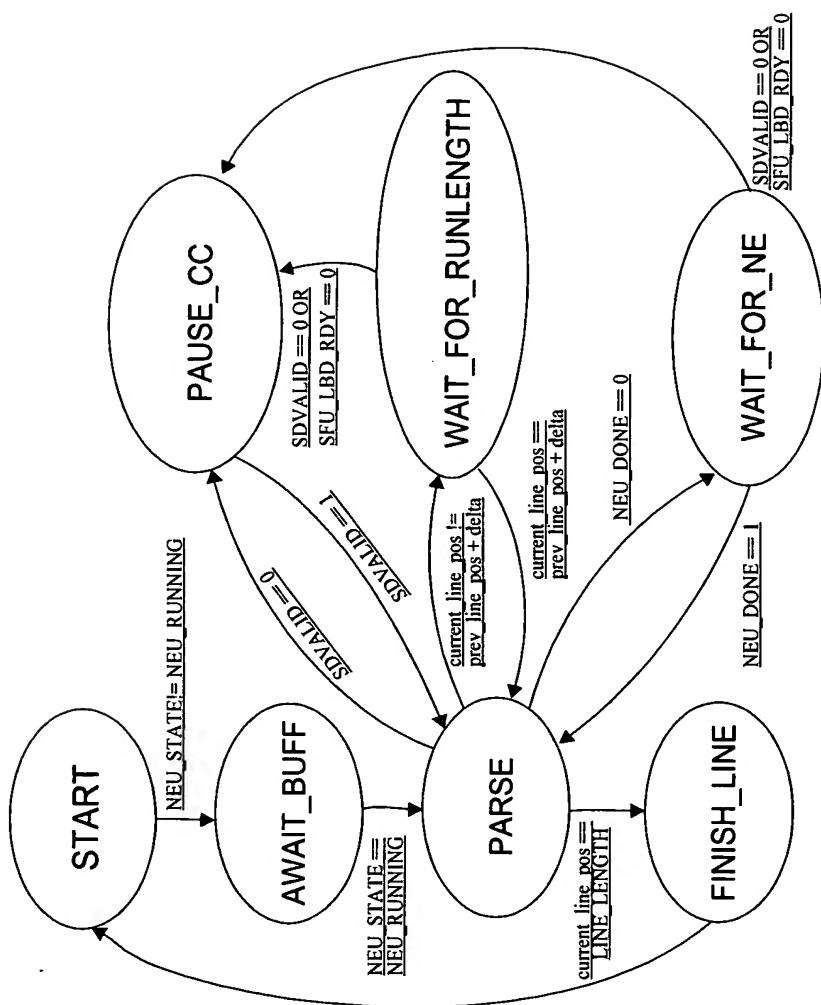


FIG. 151

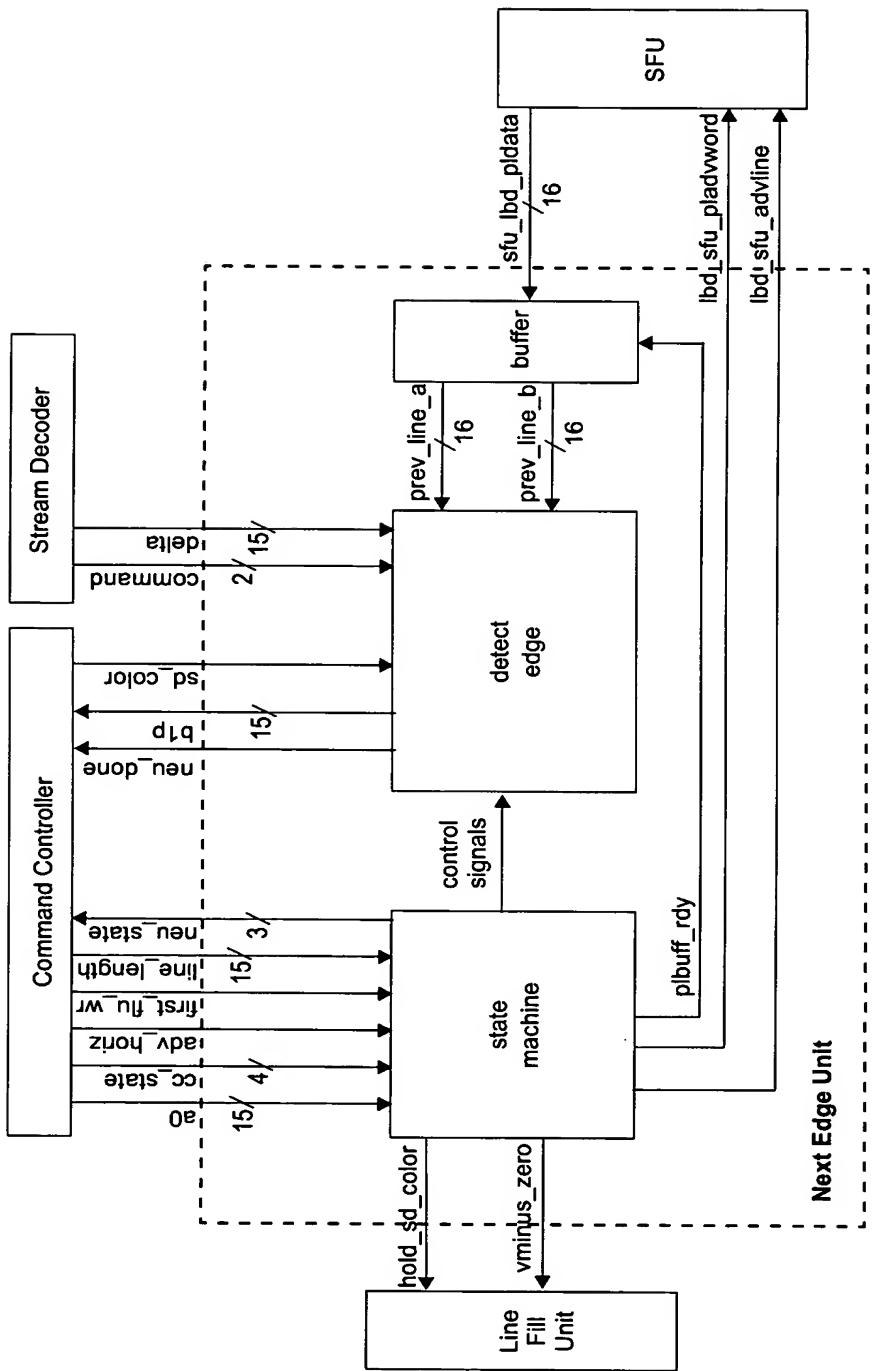


FIG. 152

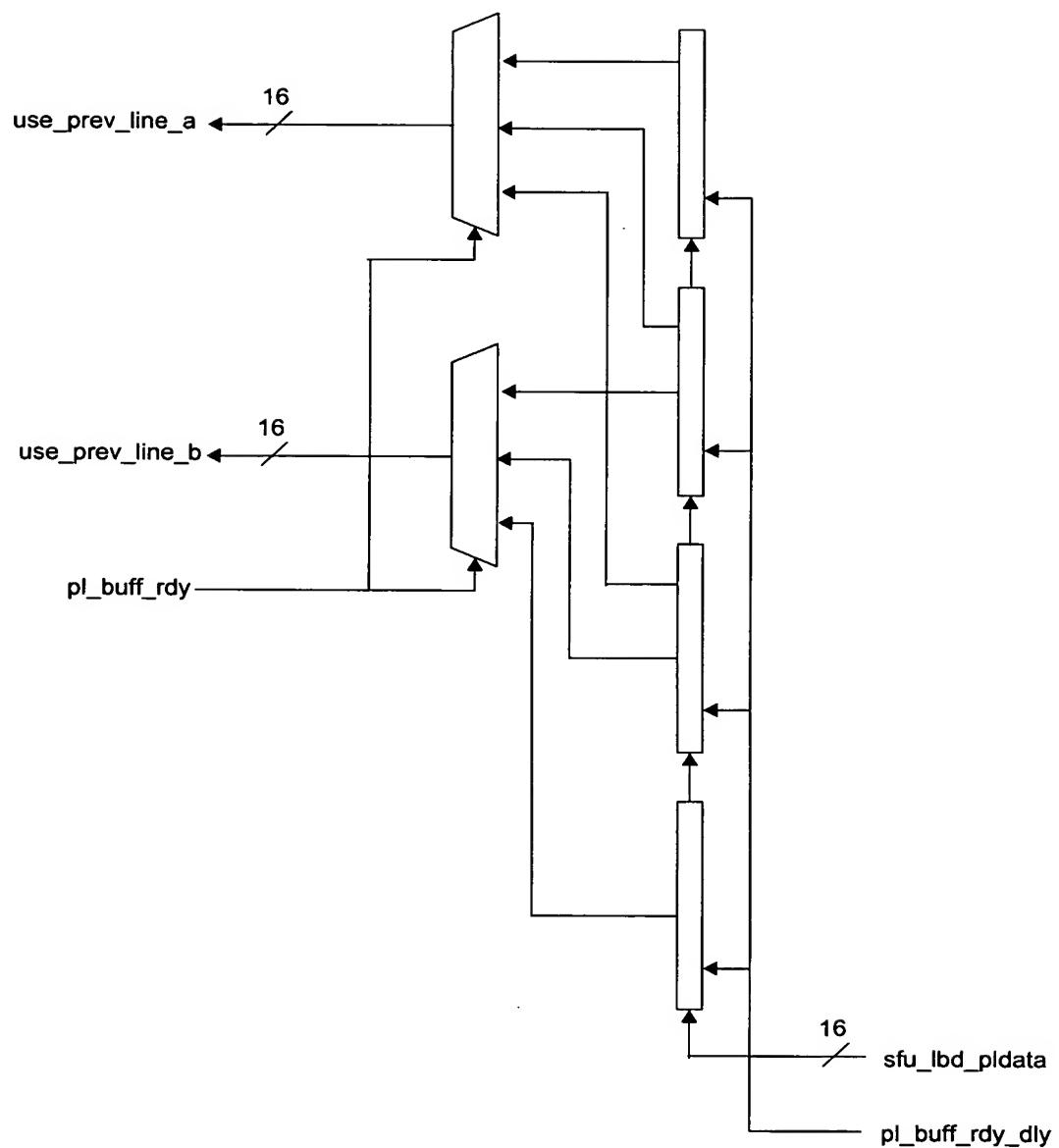


FIG. 153

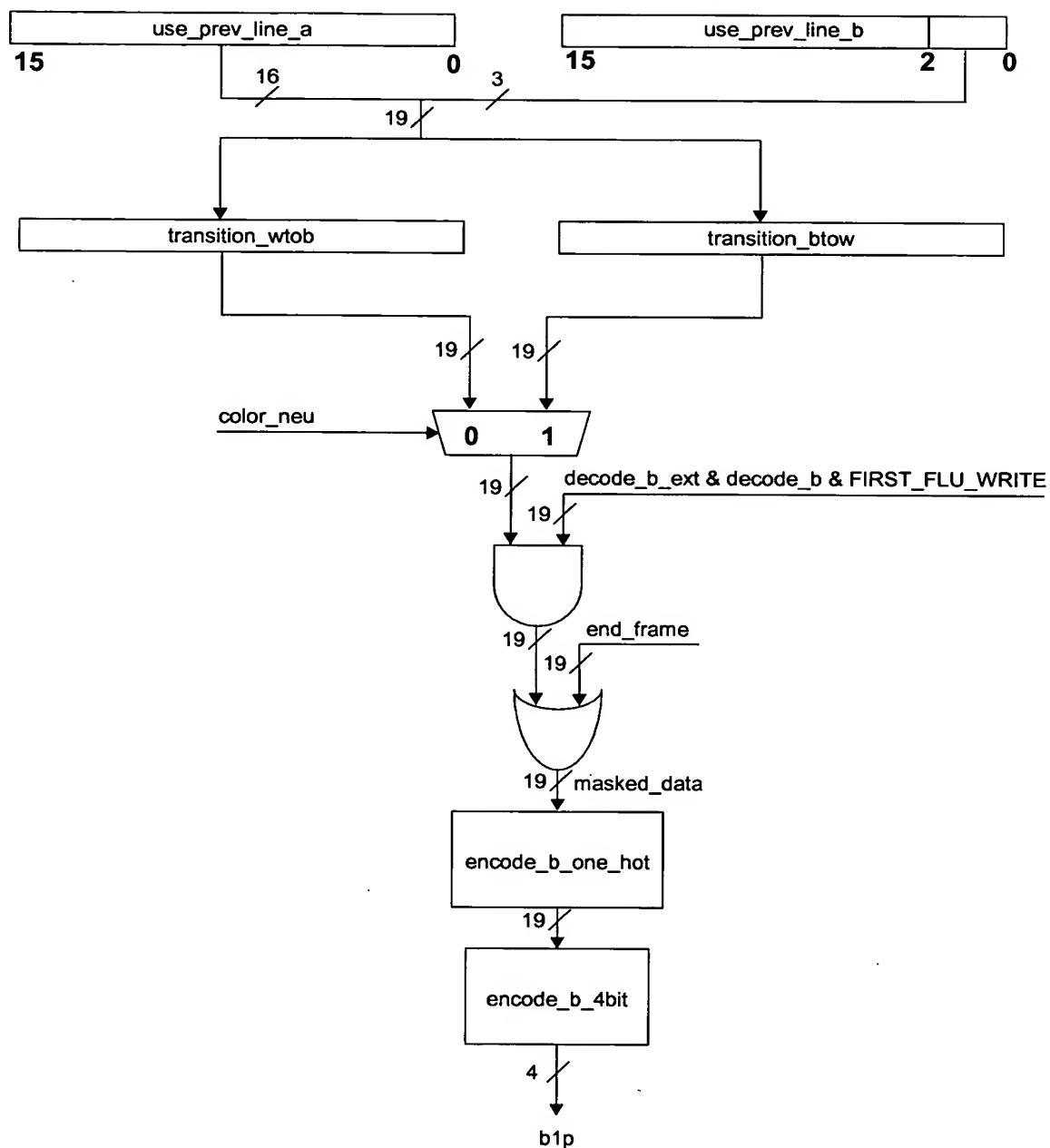


FIG. 154

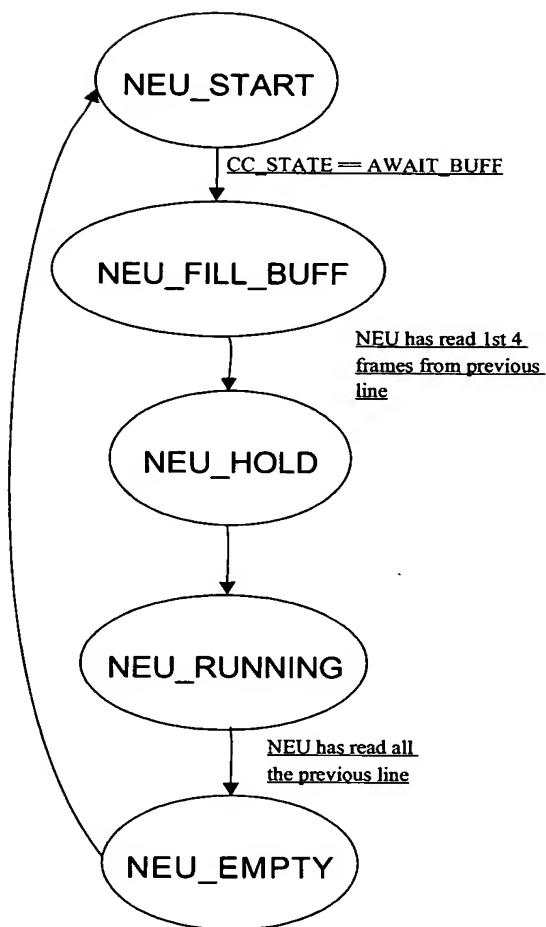


FIG. 155

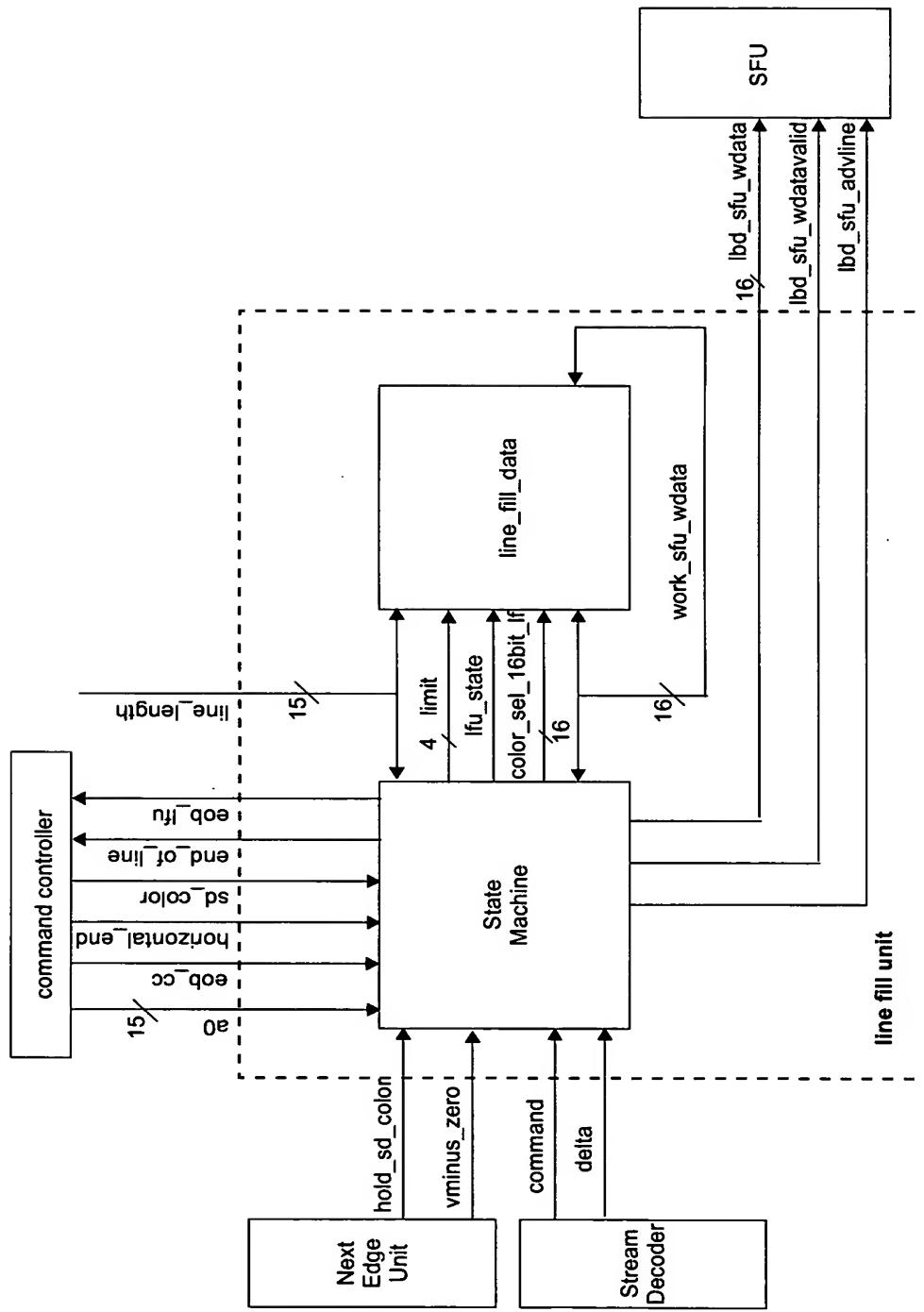


FIG. 156

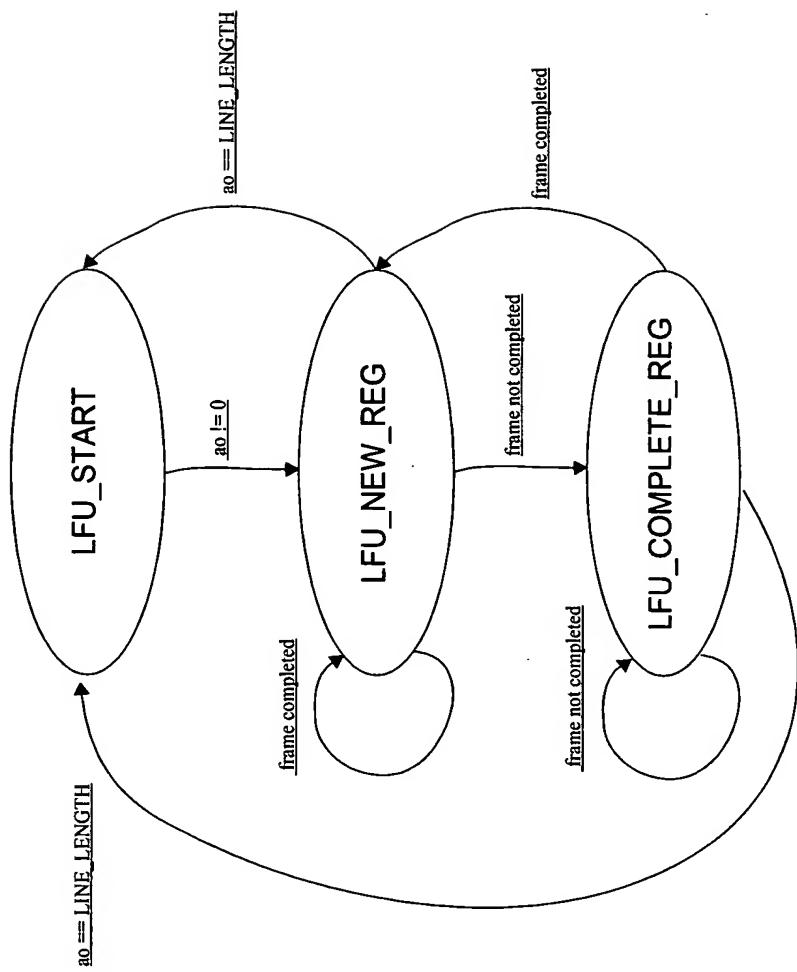


FIG. 157

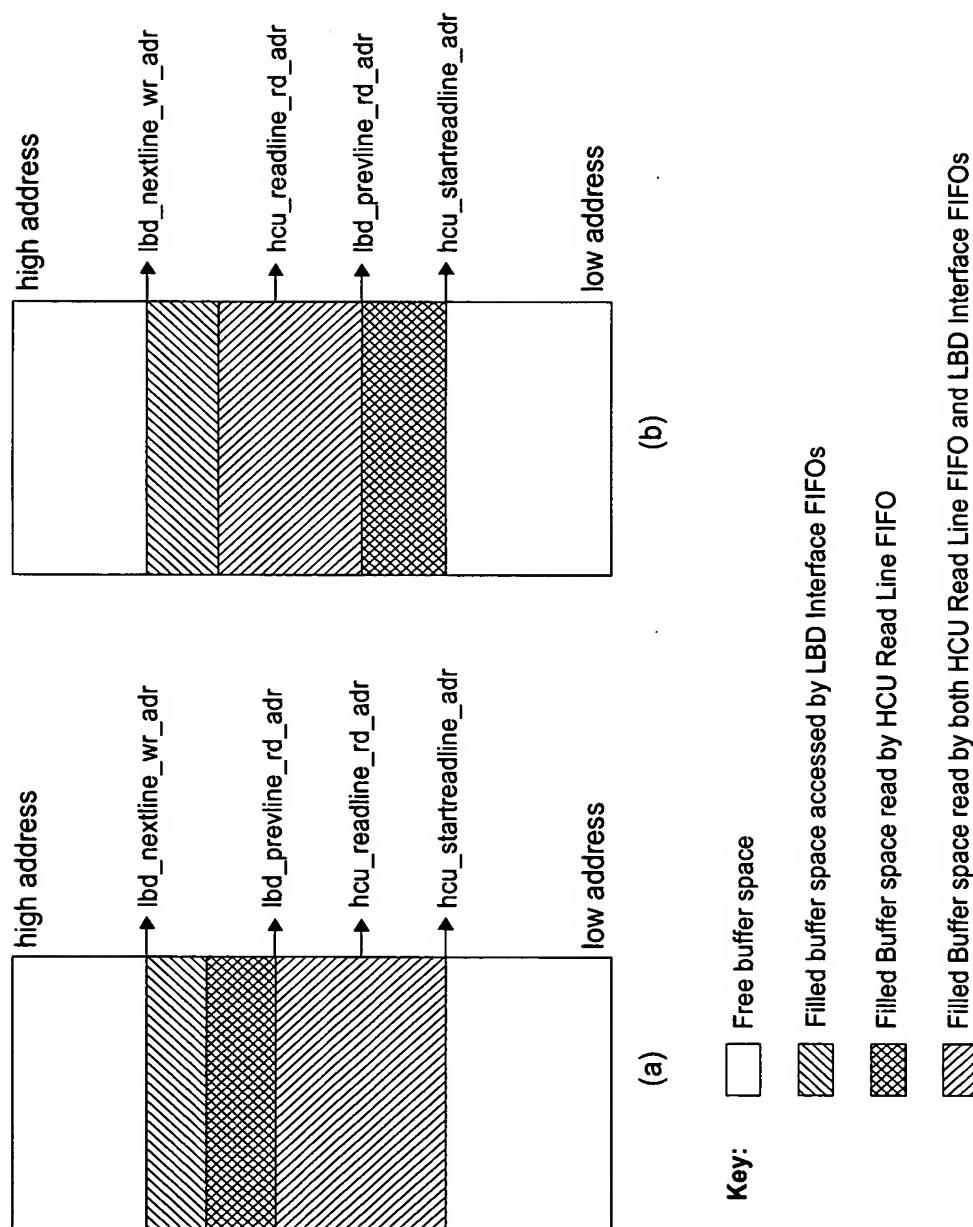


FIG. 158

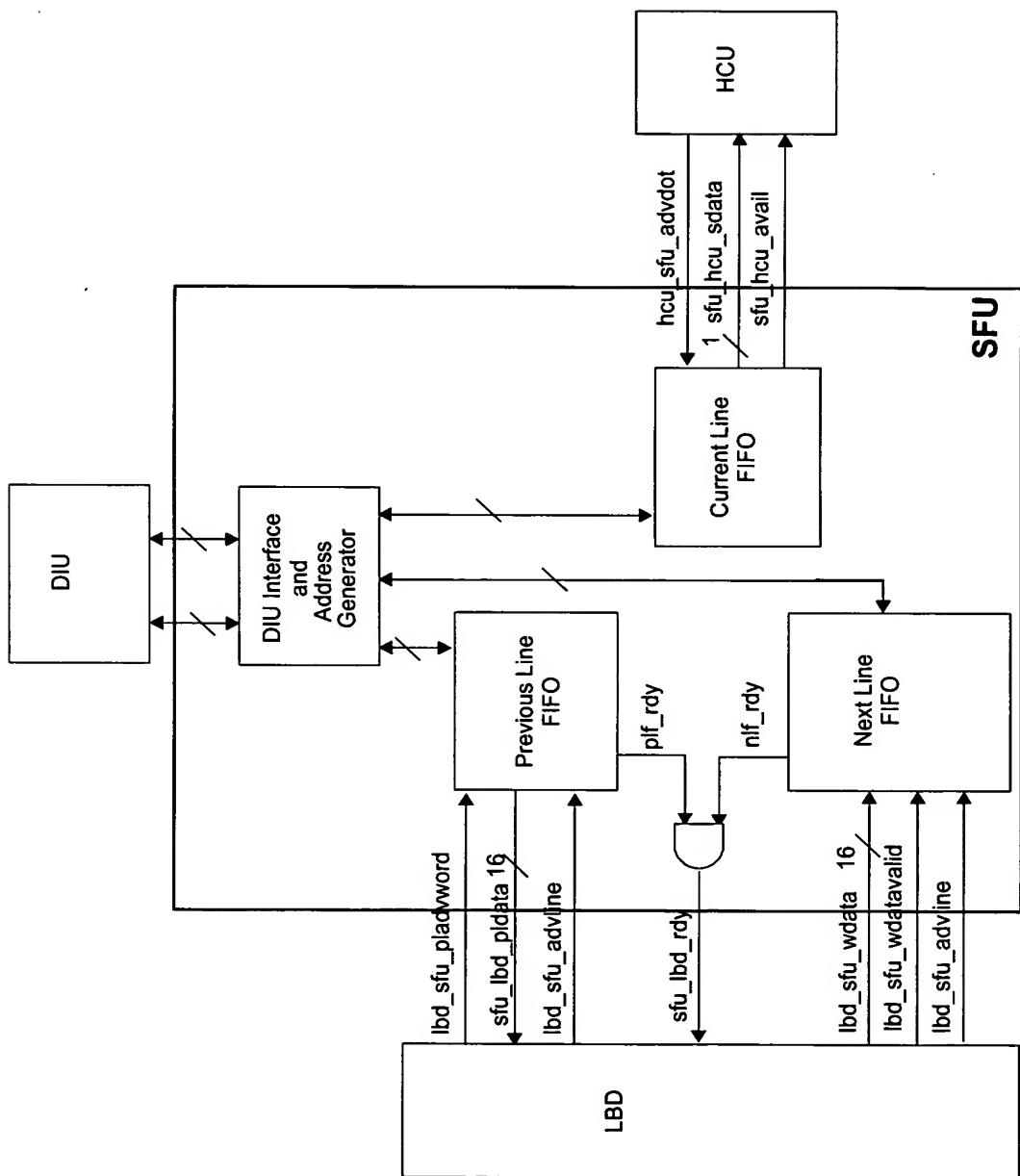


FIG. 159

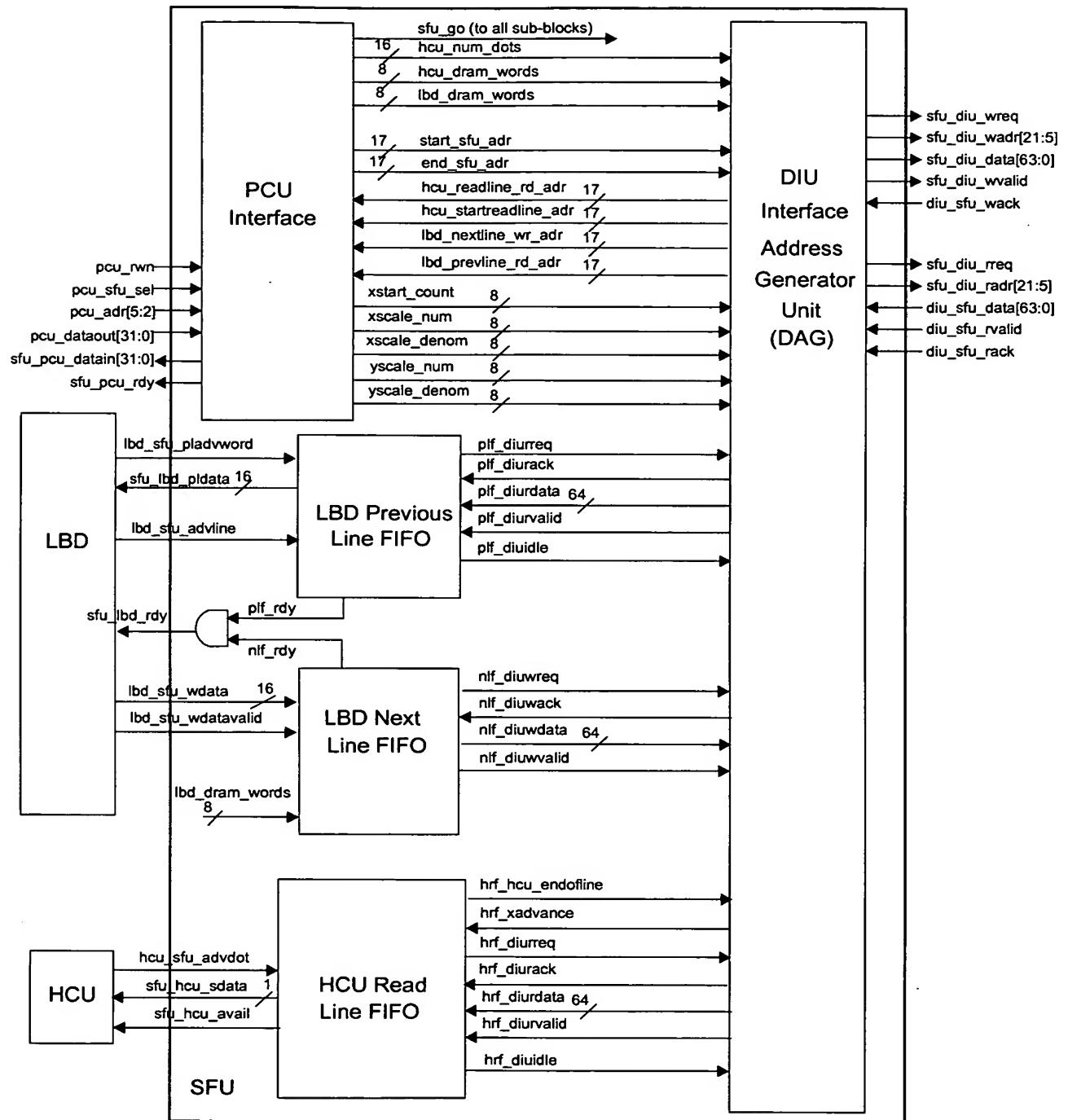


FIG. 160

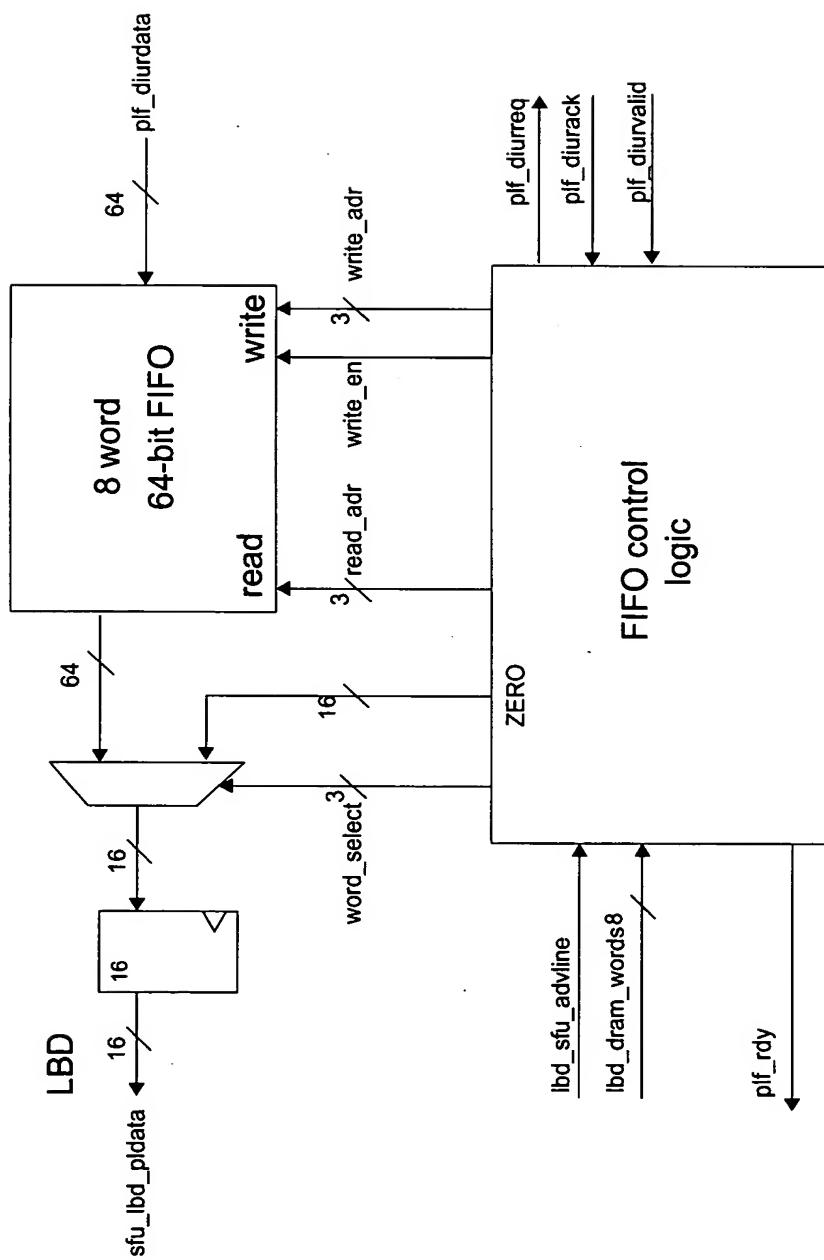


FIG. 161

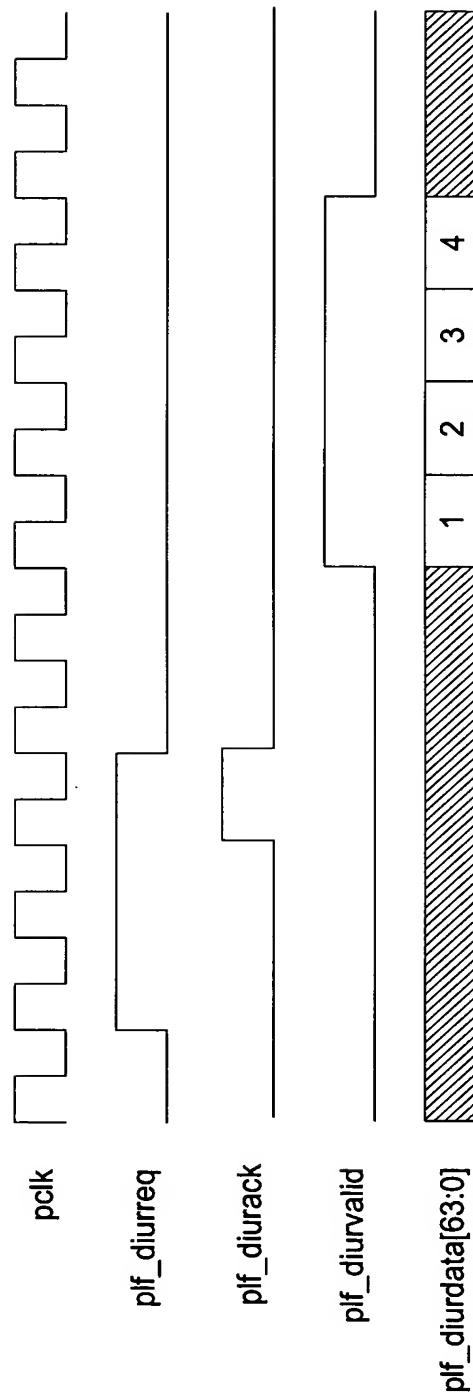


FIG. 162

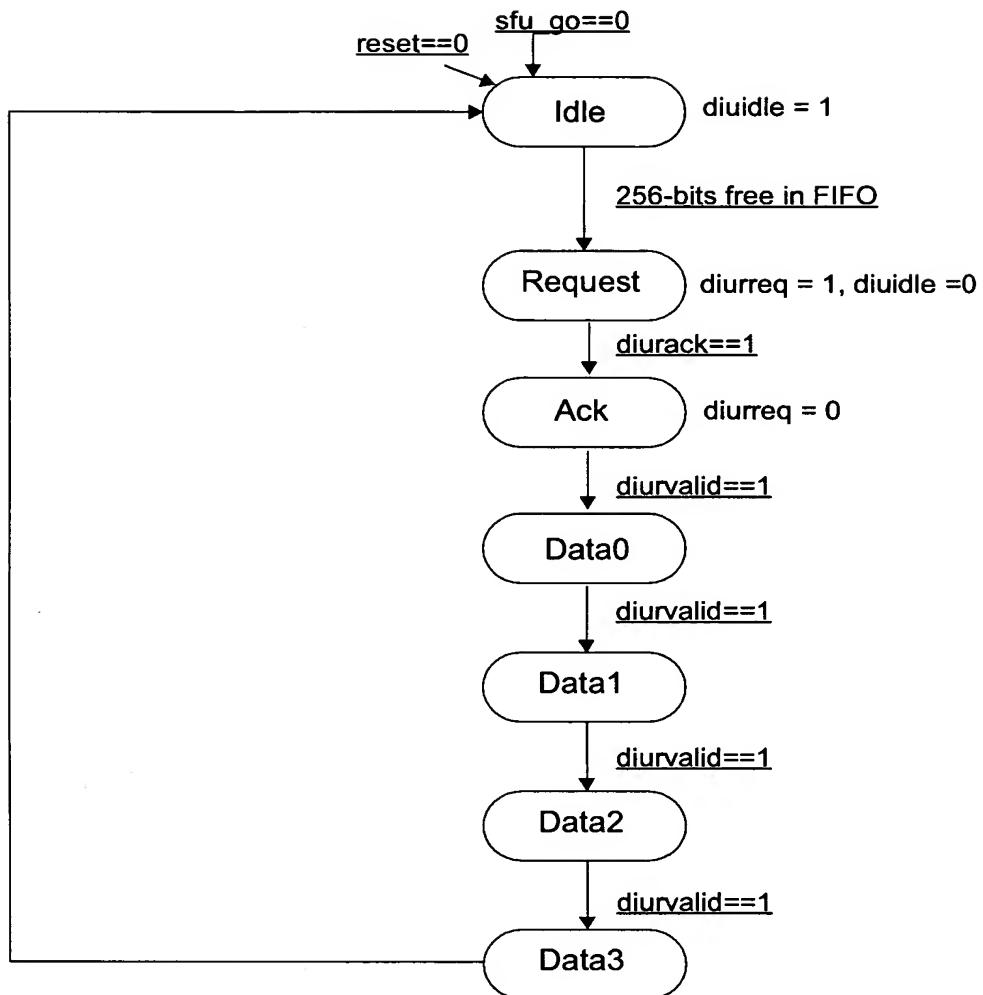


FIG. 163

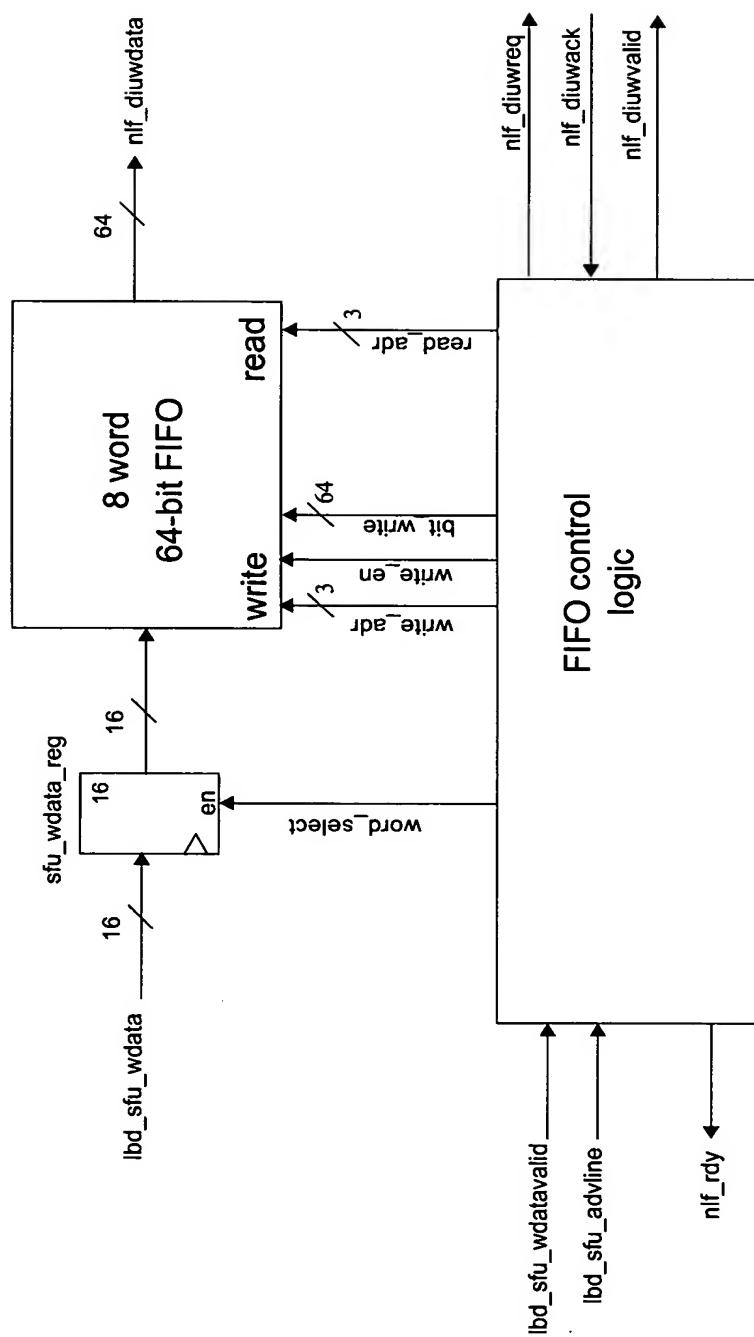


FIG. 164

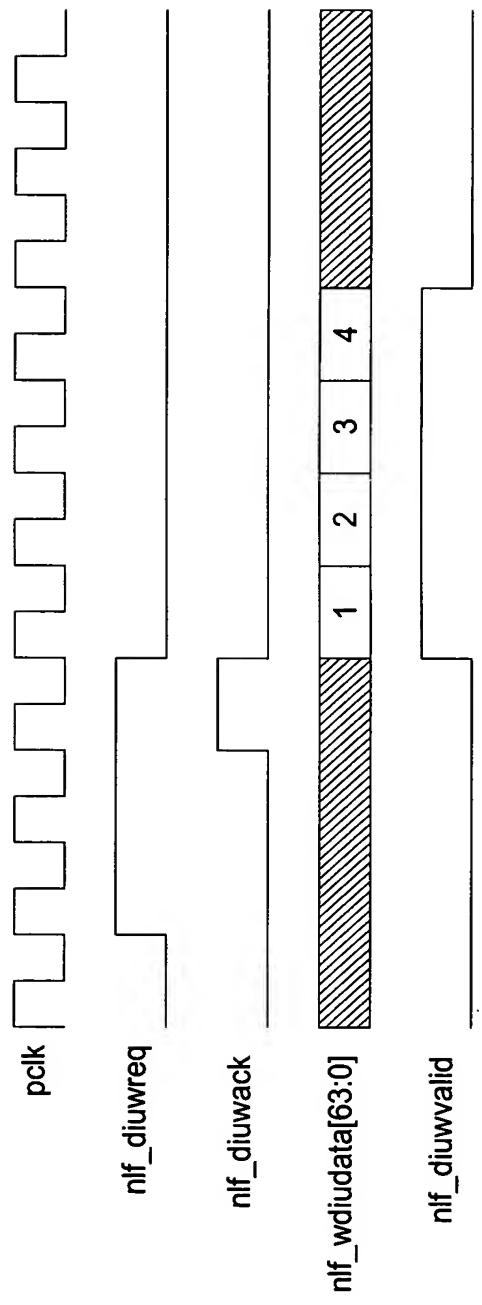


FIG. 165

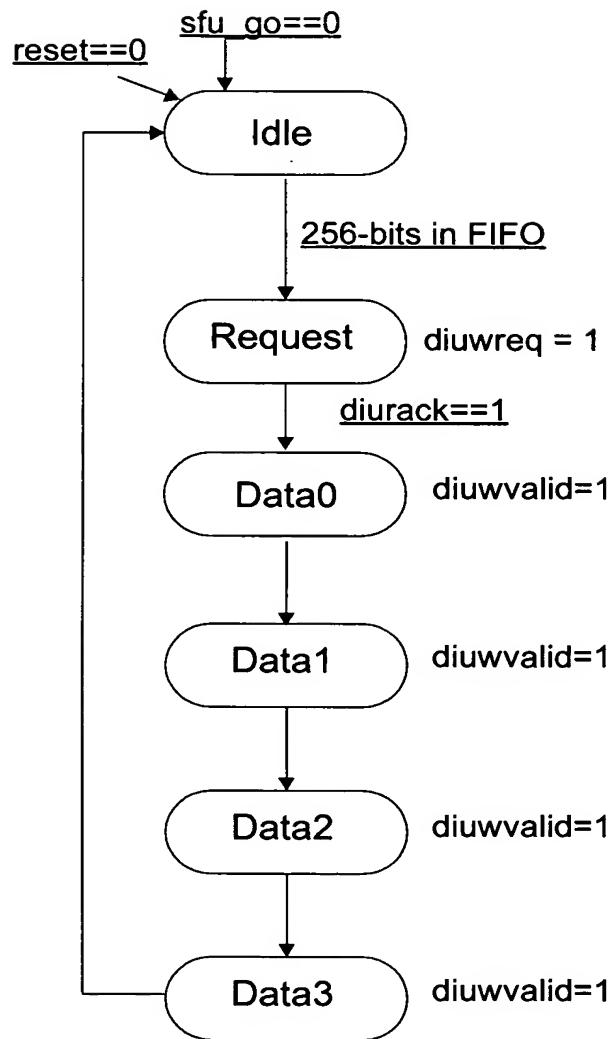


FIG. 166

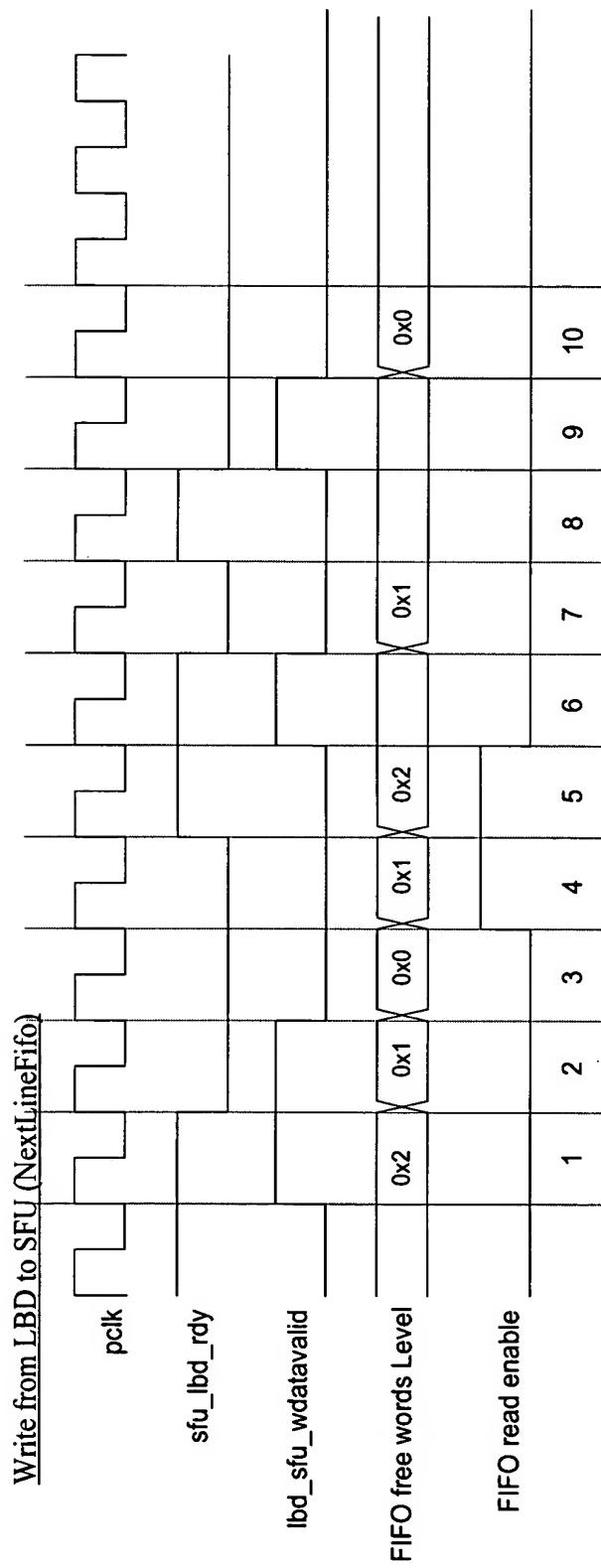


FIG. 167

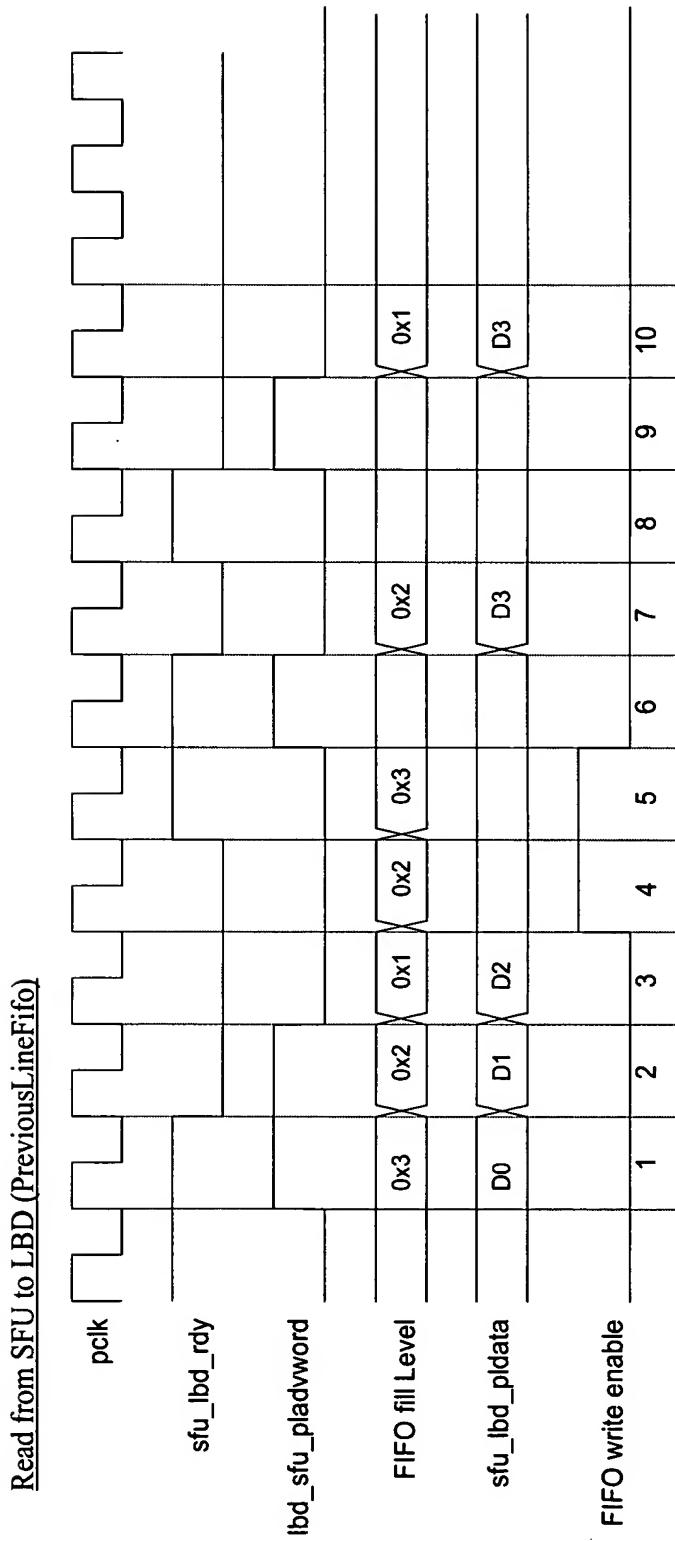


FIG. 168

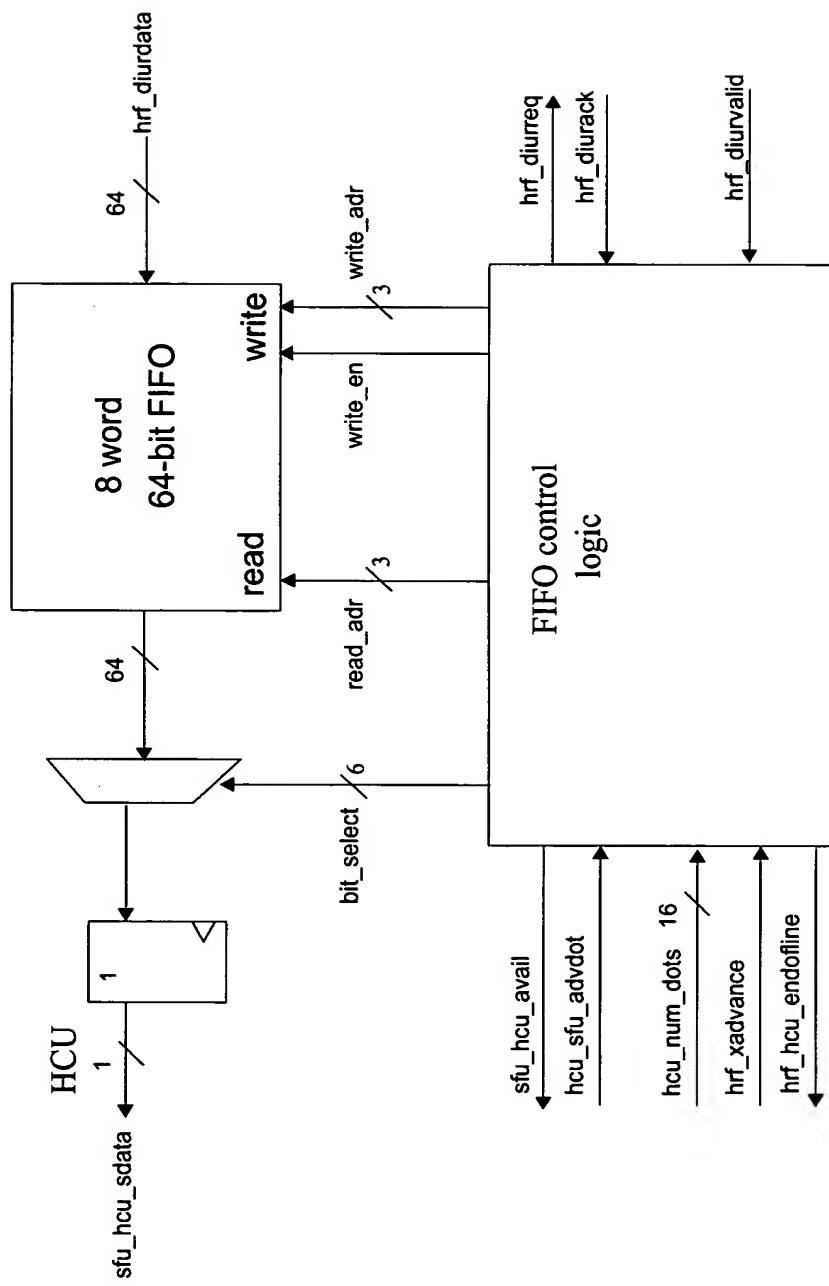


FIG. 169

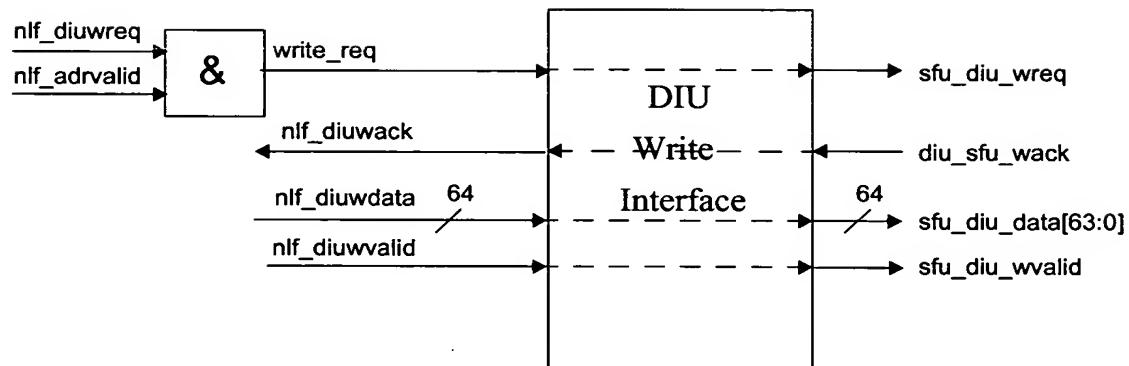


FIG. 170

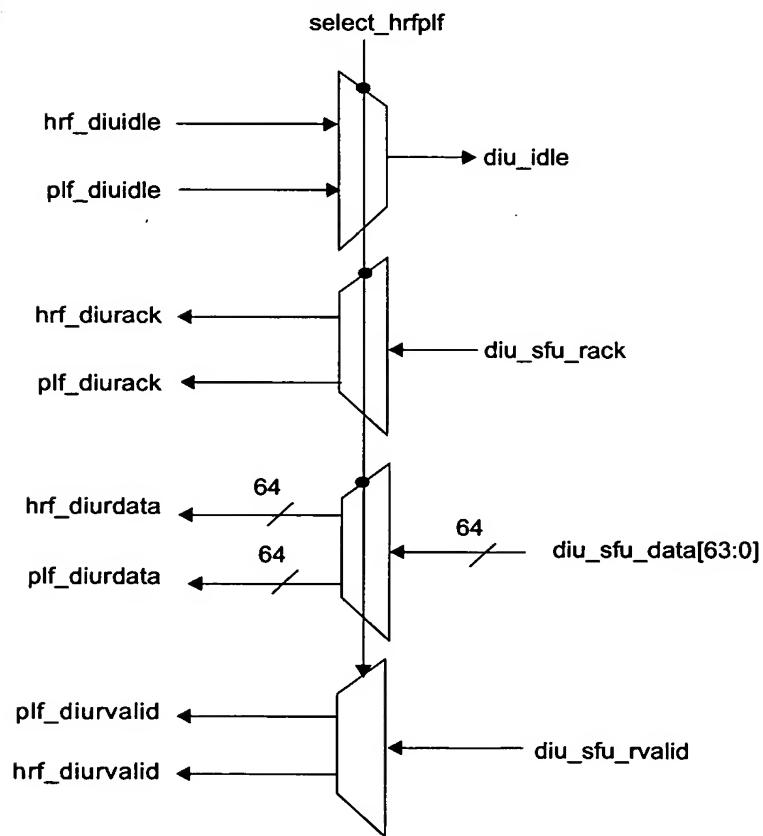


FIG. 171

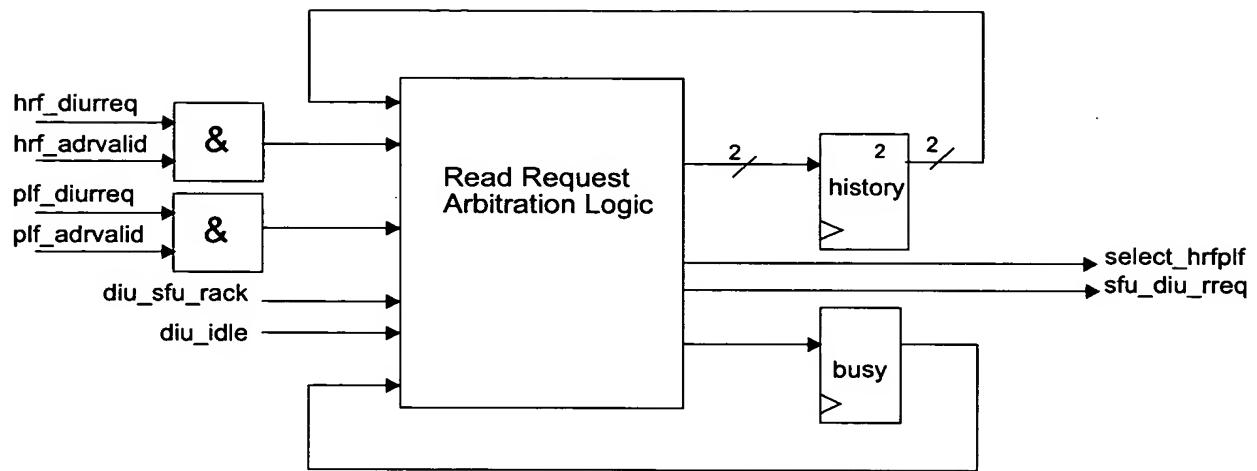


FIG. 172

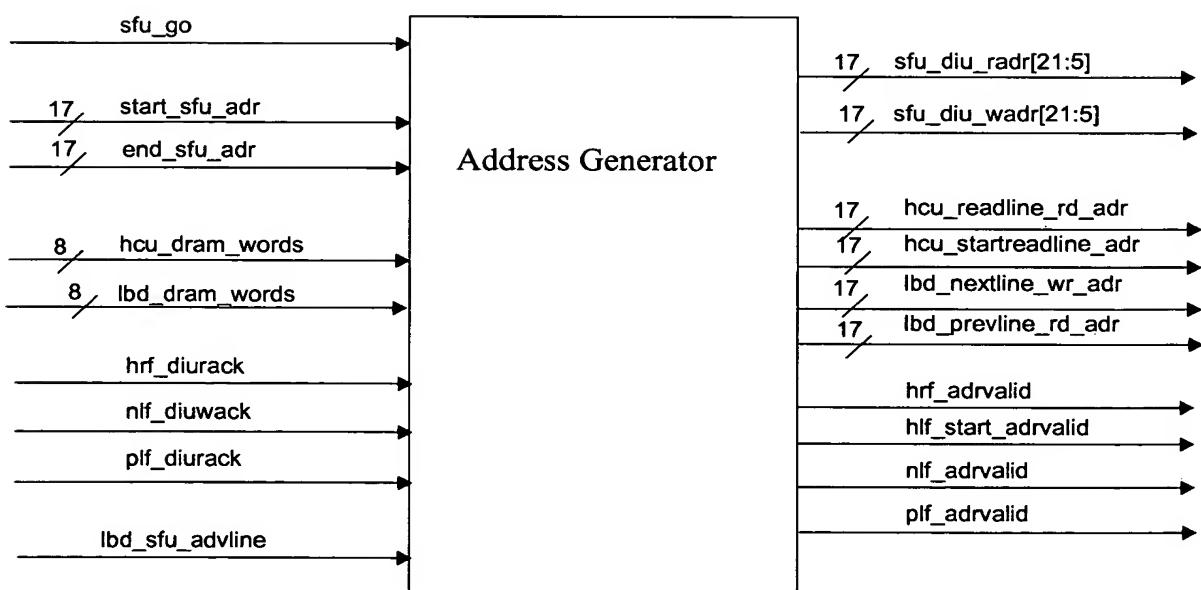


FIG. 173

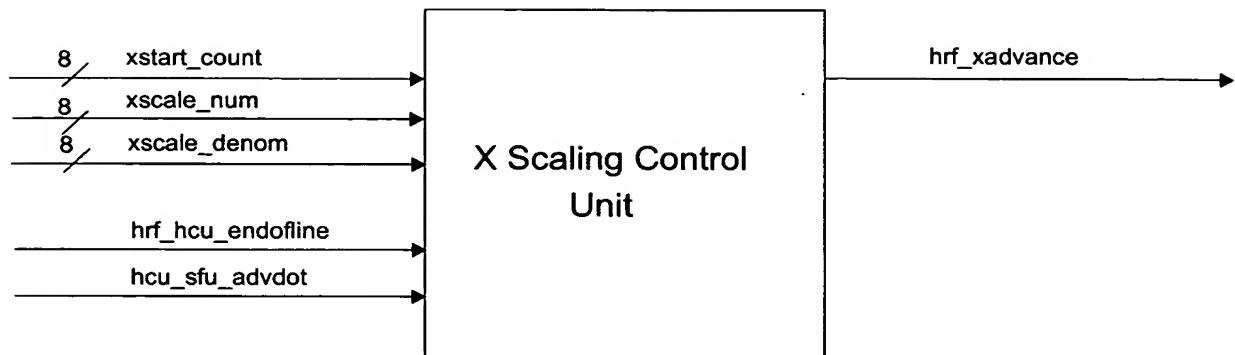


FIG. 174

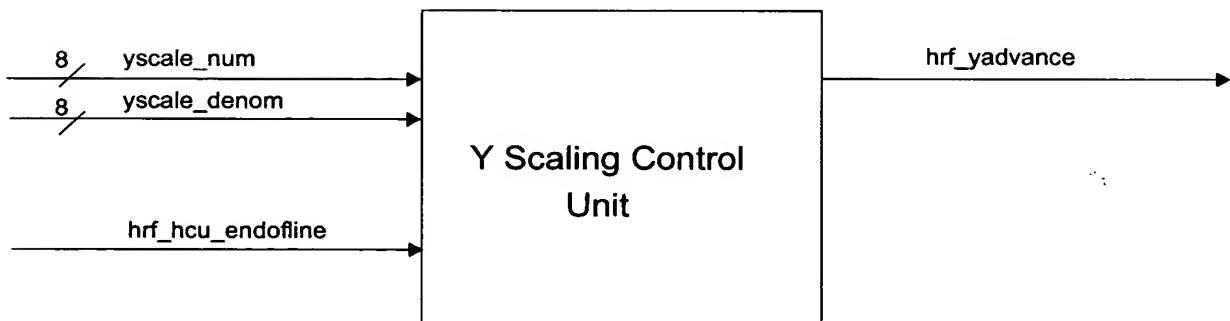


FIG. 175

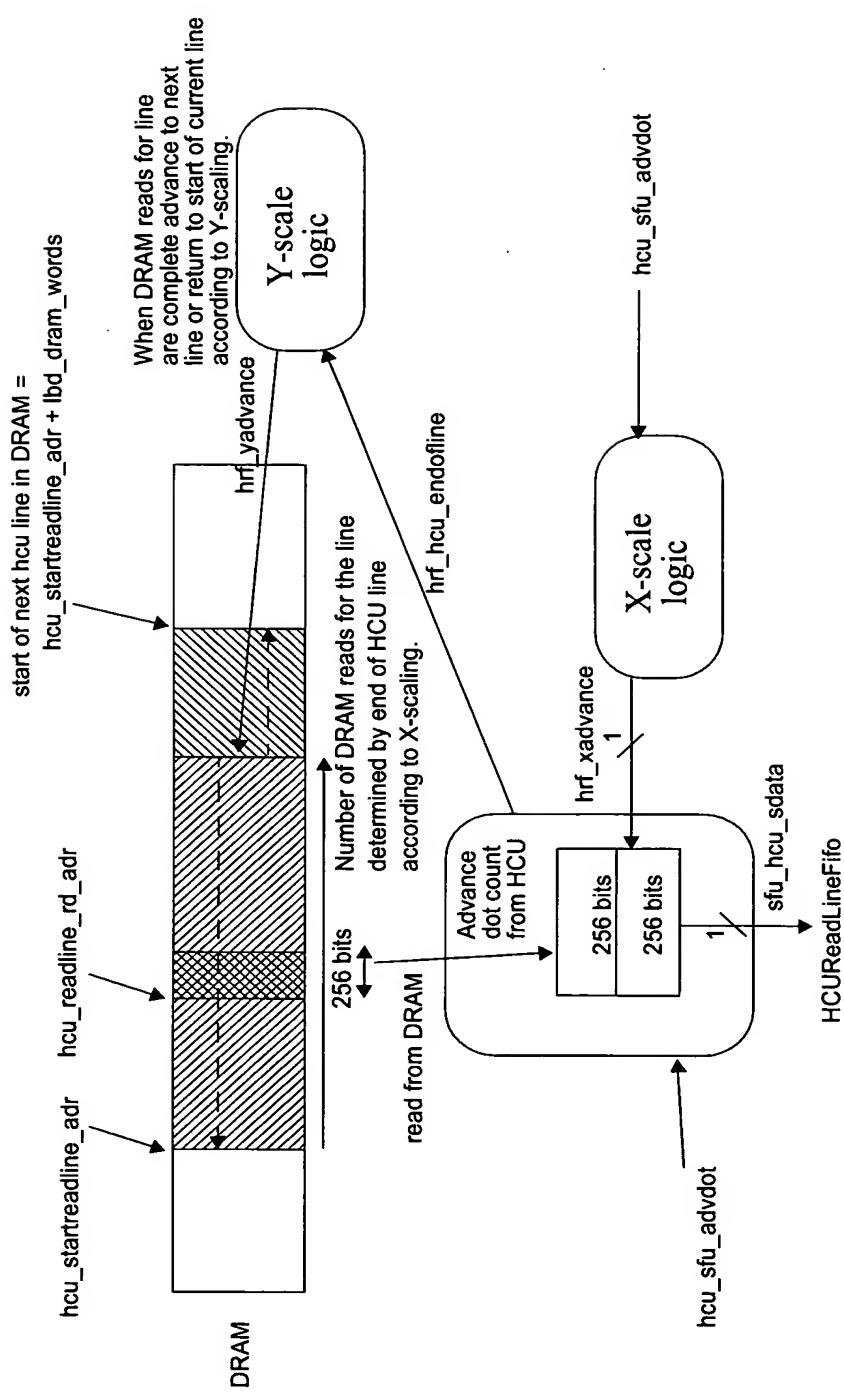


FIG. 176

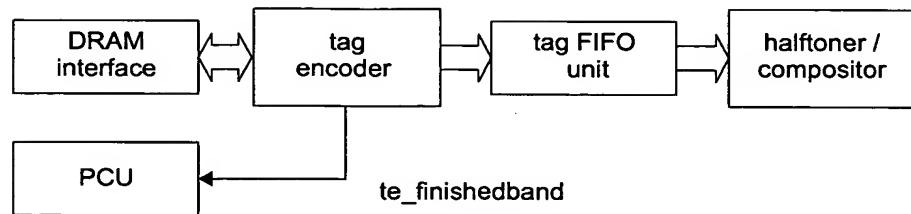


FIG. 177

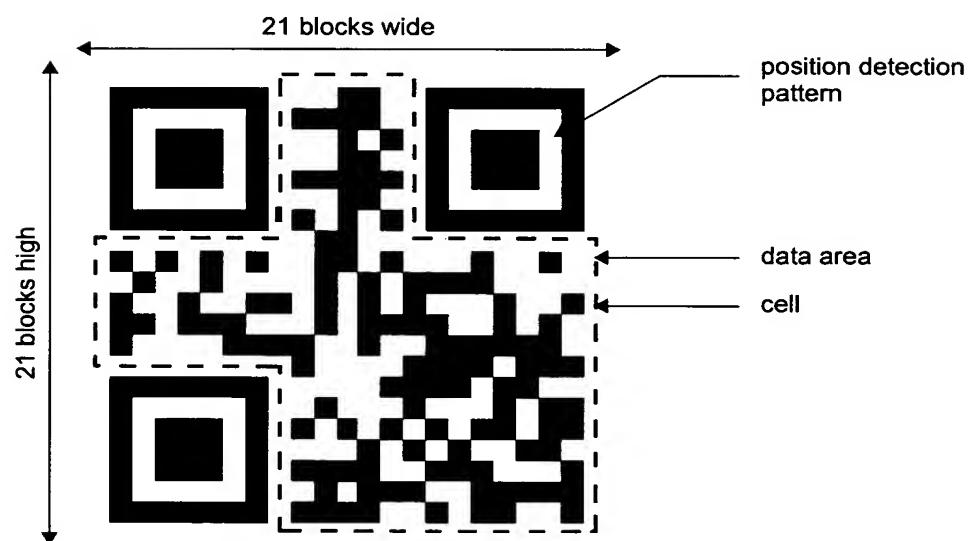
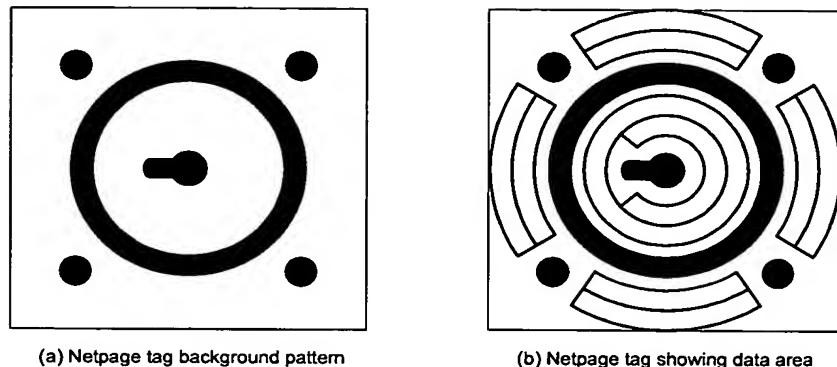


FIG. 178



(a) Netpage tag background pattern

(b) Netpage tag showing data area

FIG. 179

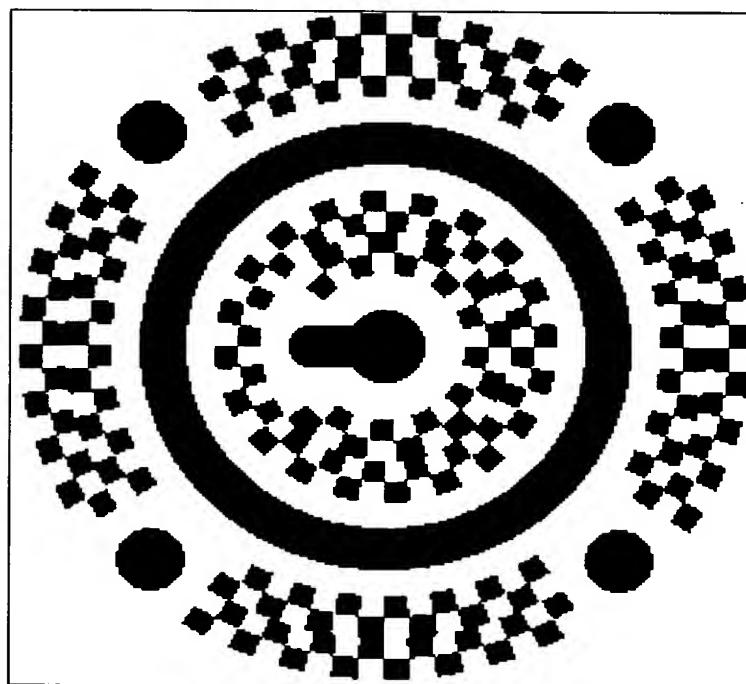


FIG. 180

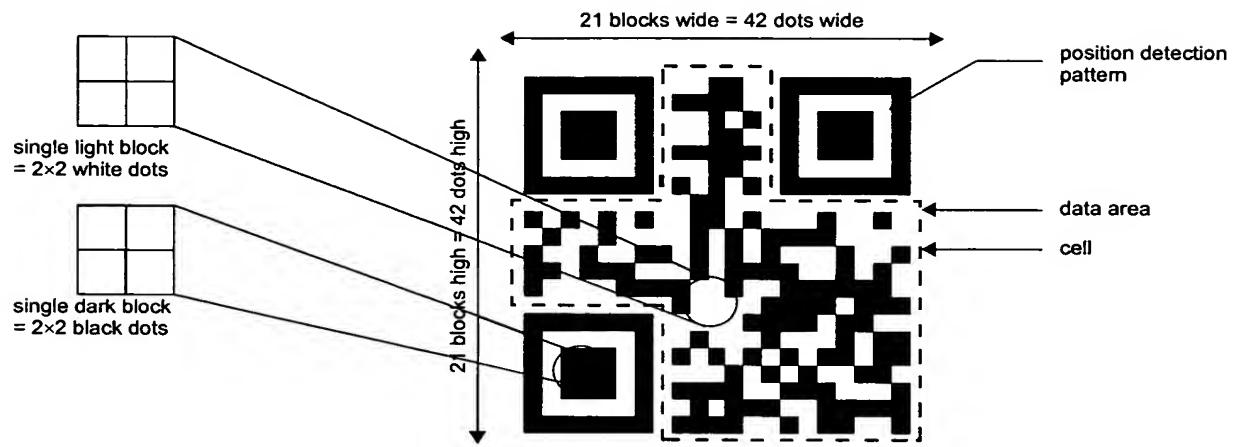


FIG. 181

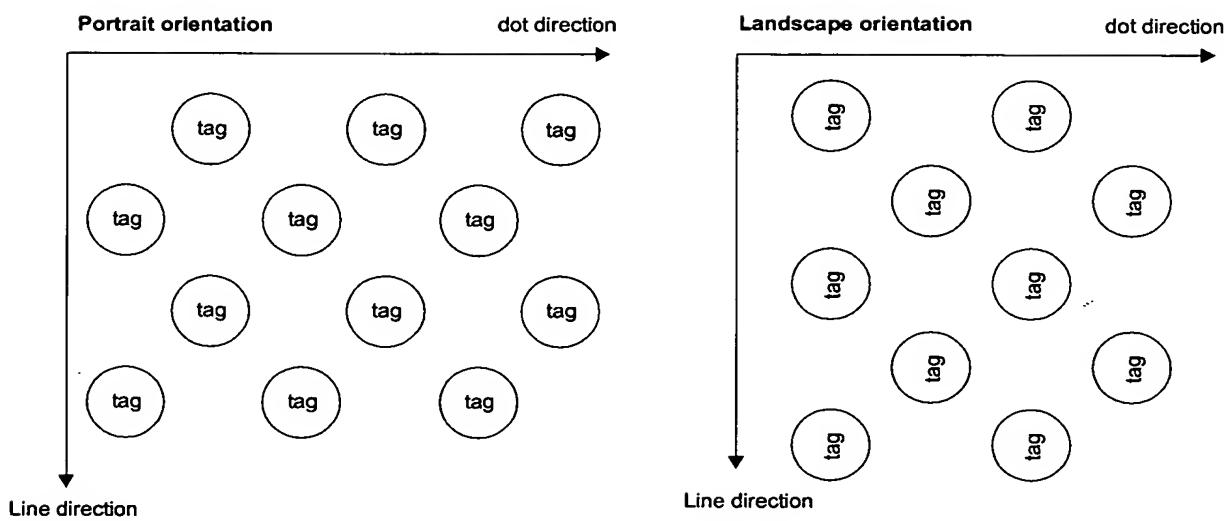


FIG. 182

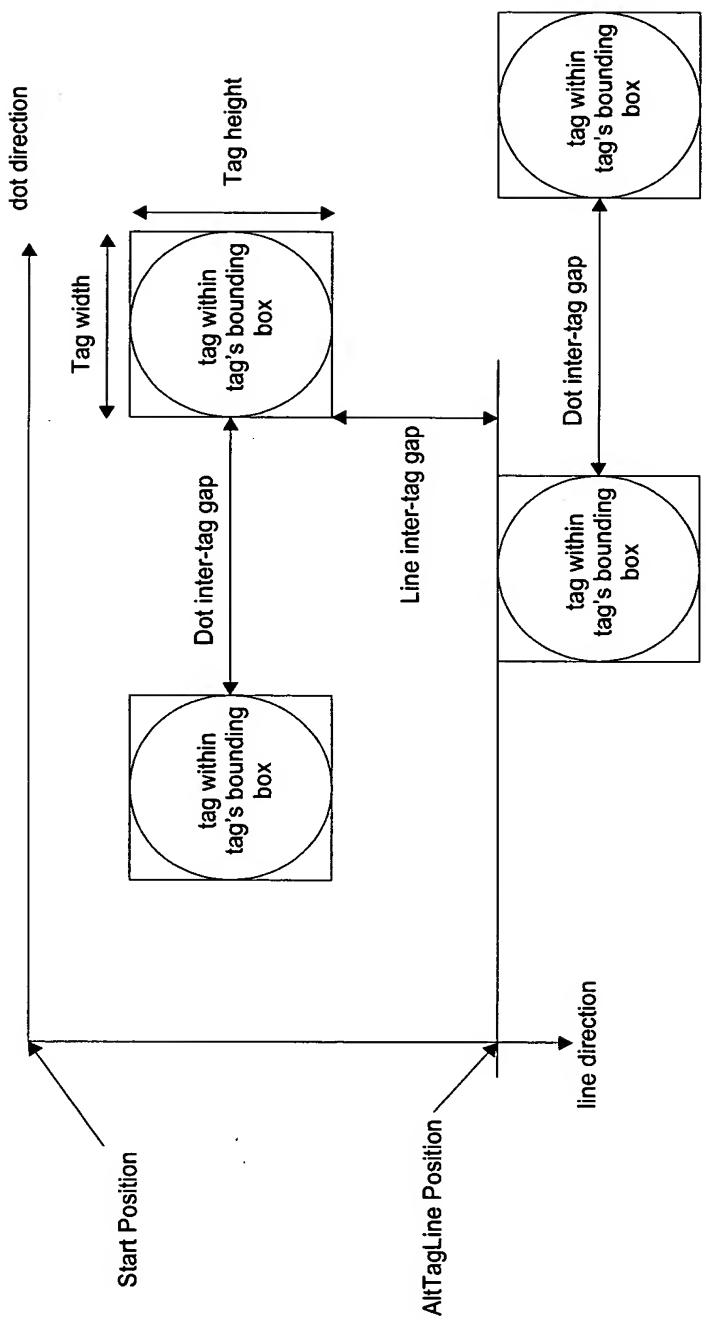


FIG. 183

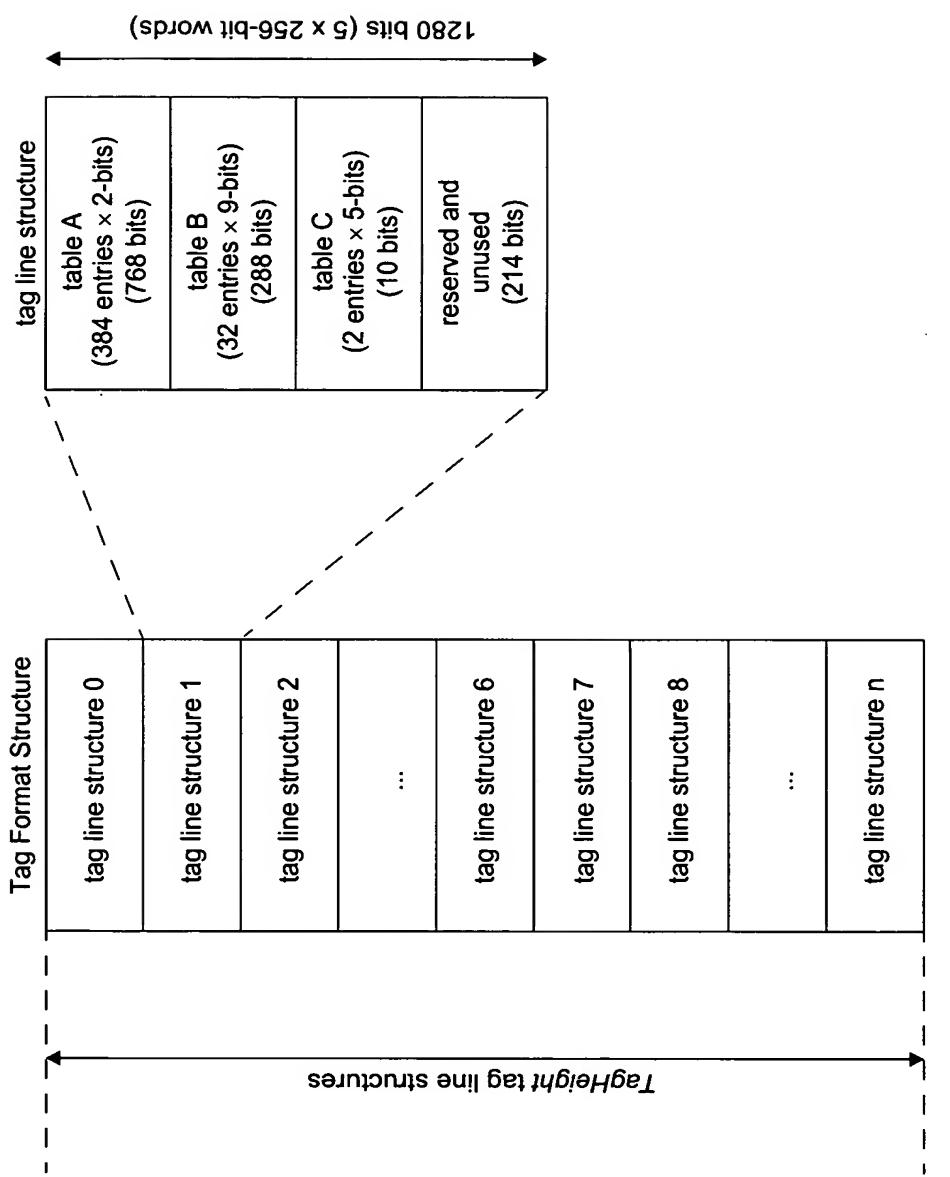


FIG. 184

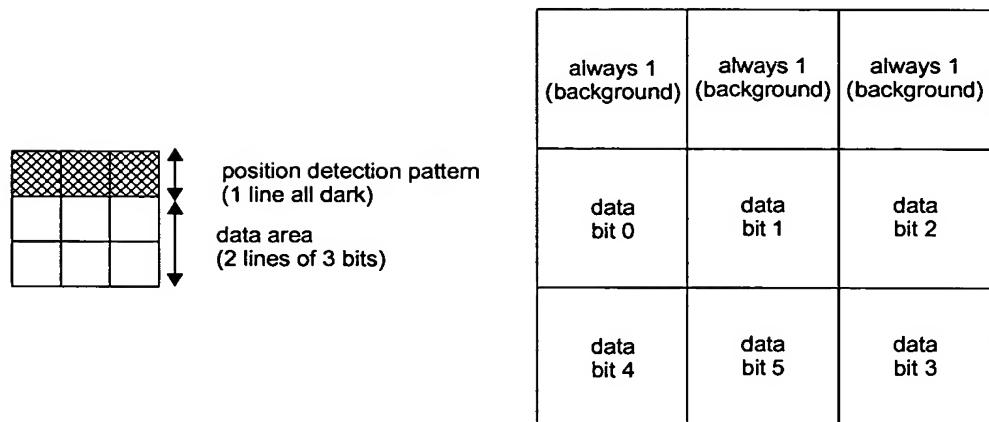


FIG. 185

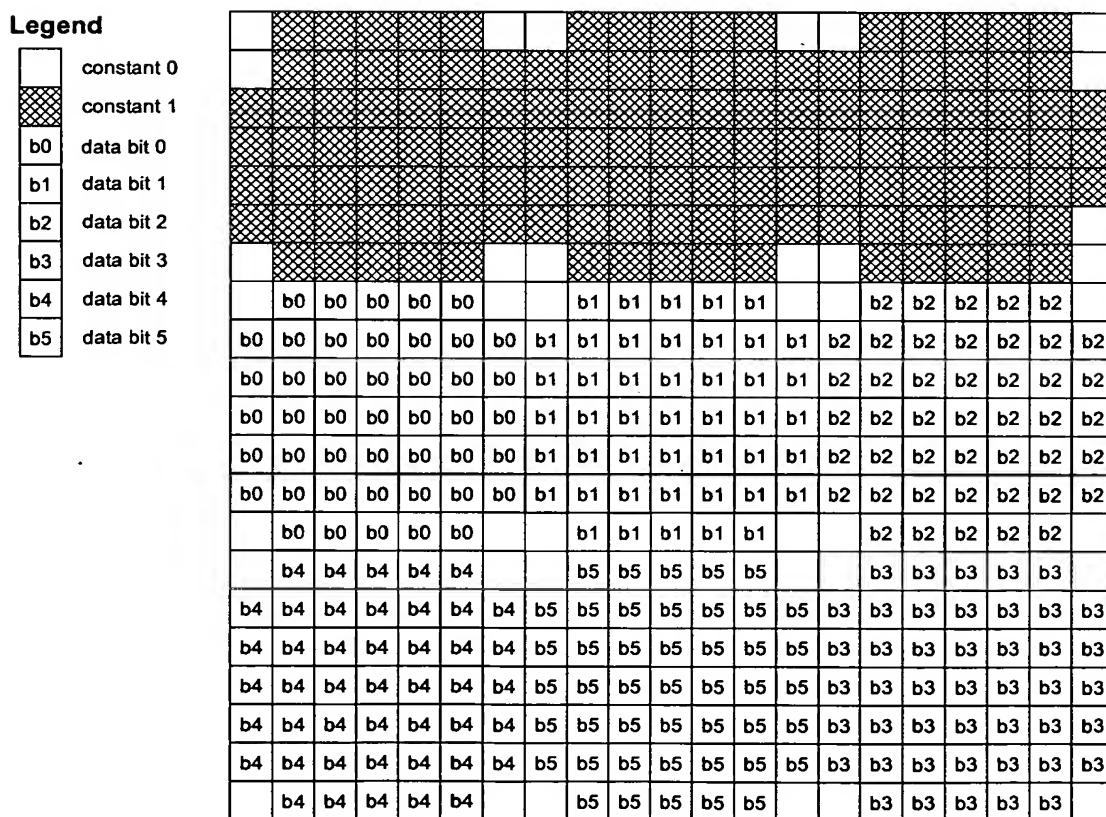


FIG. 186

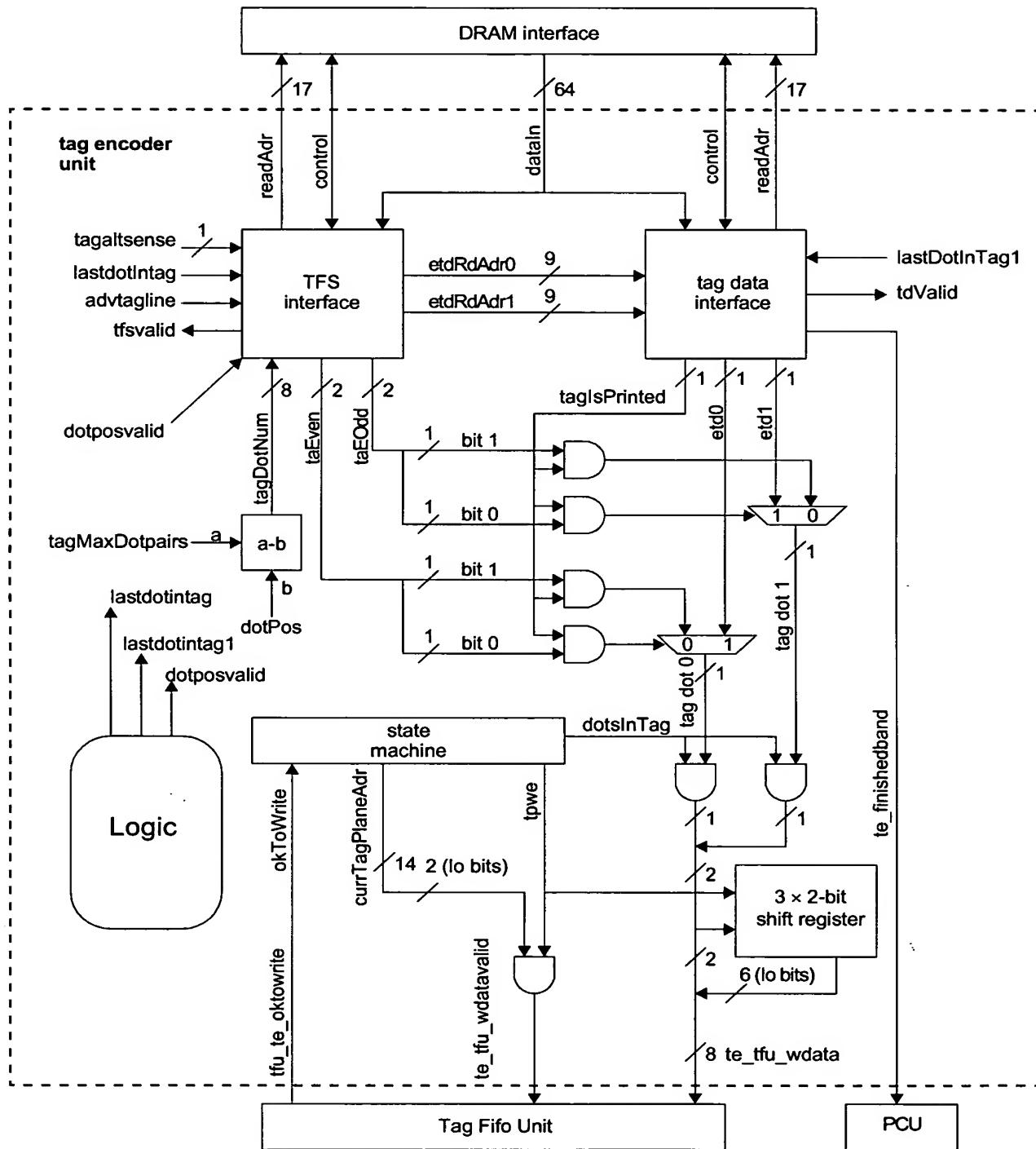


FIG. 187

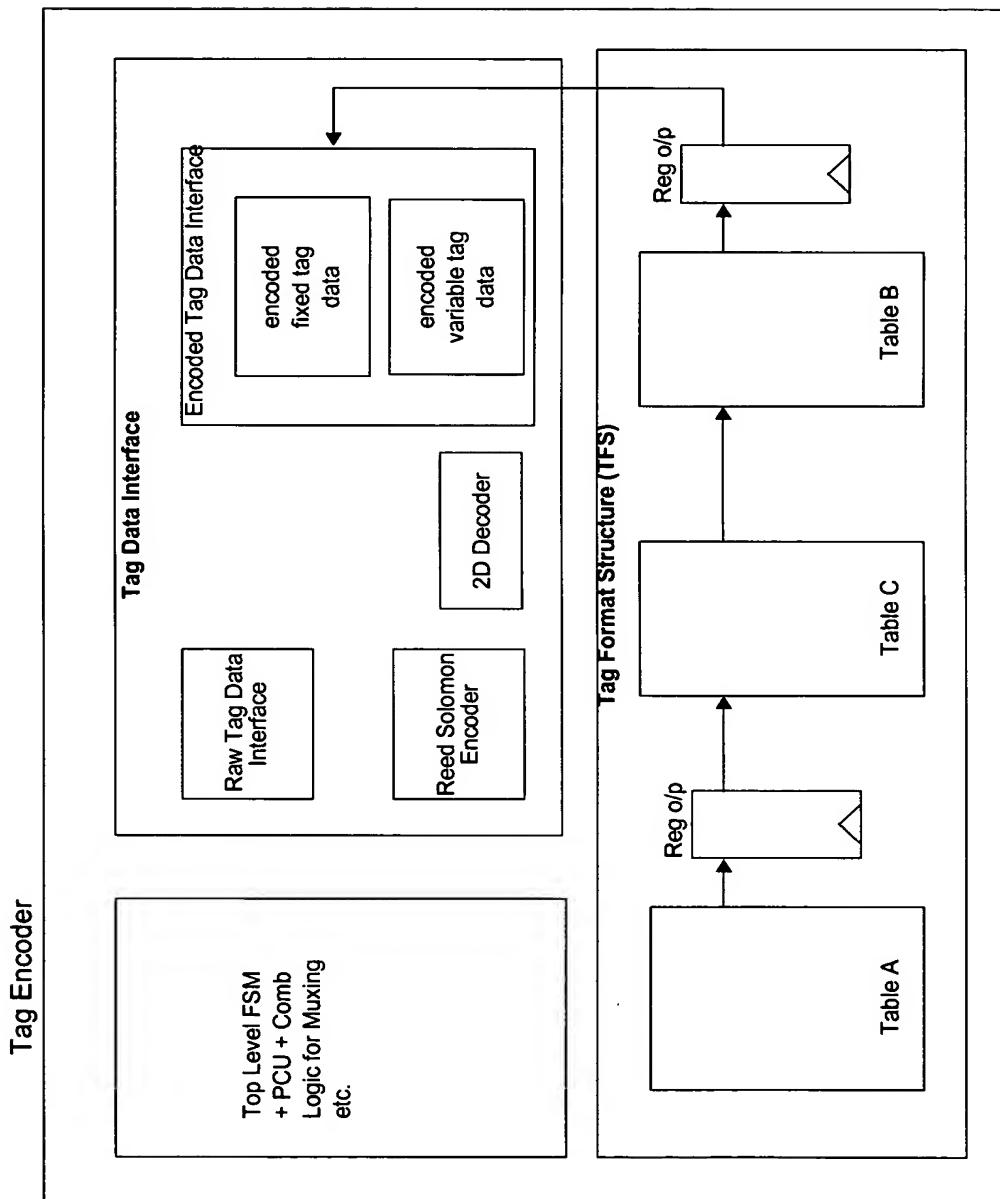


FIG. 188

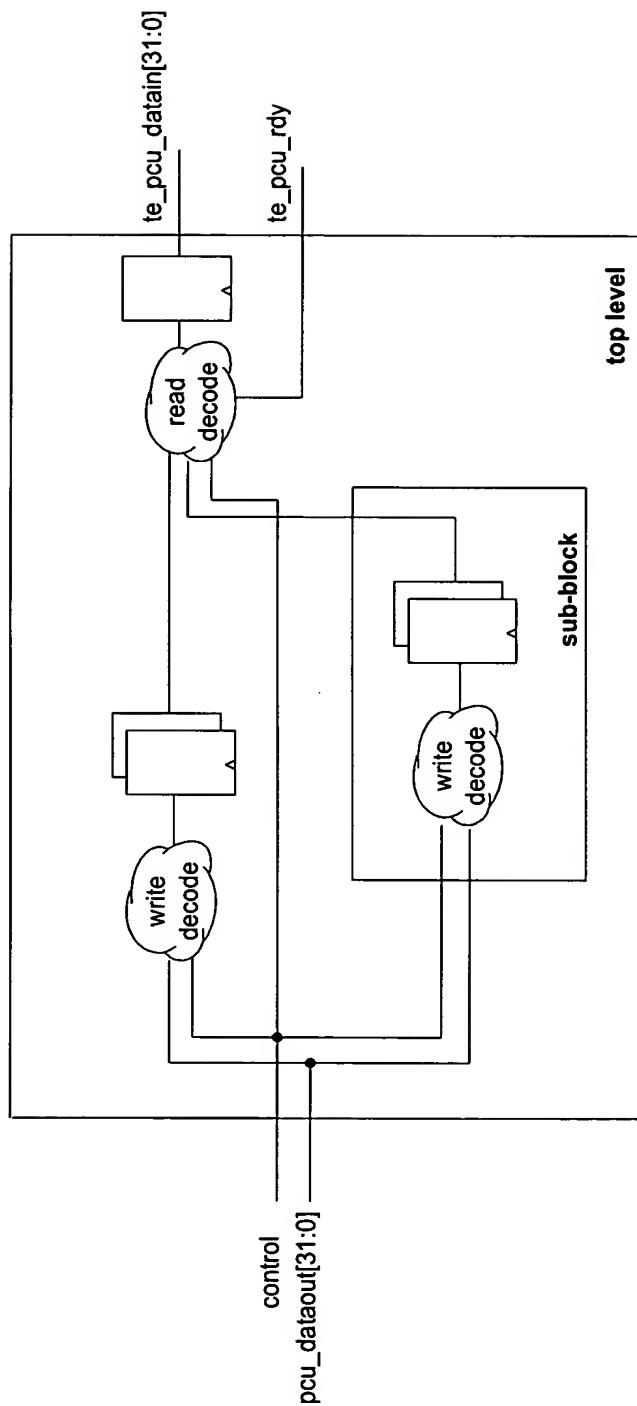


FIG. 189

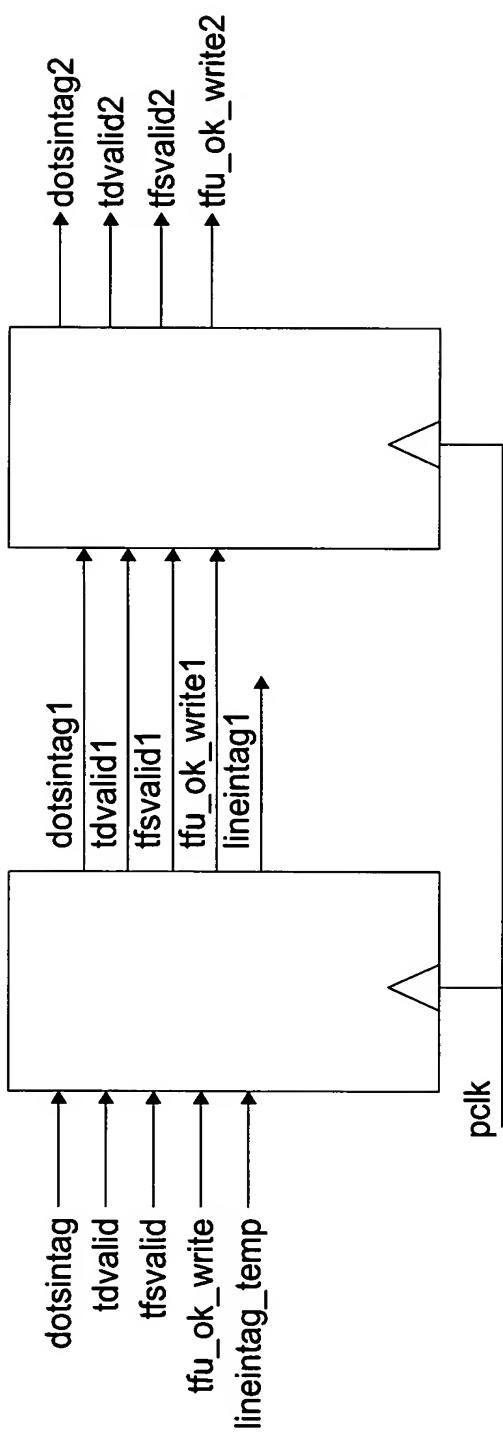


FIG. 191

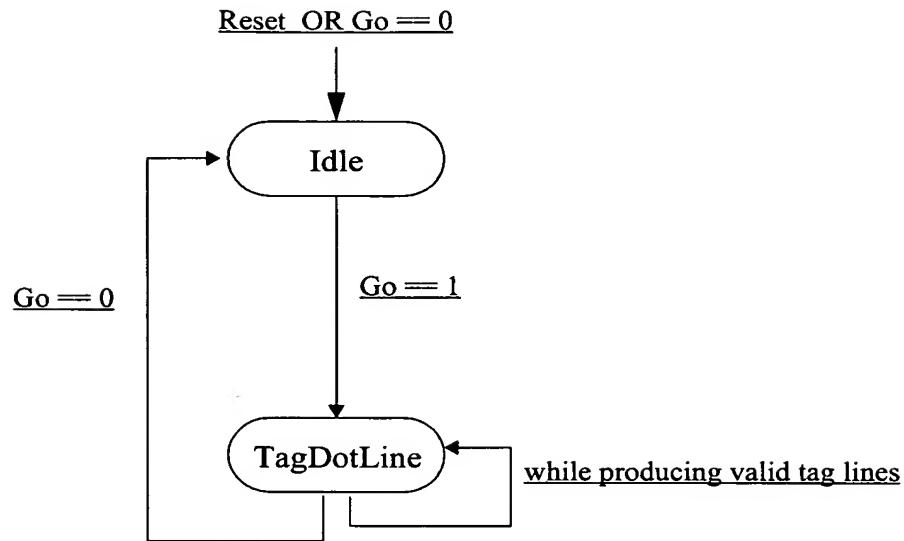


FIG. 190

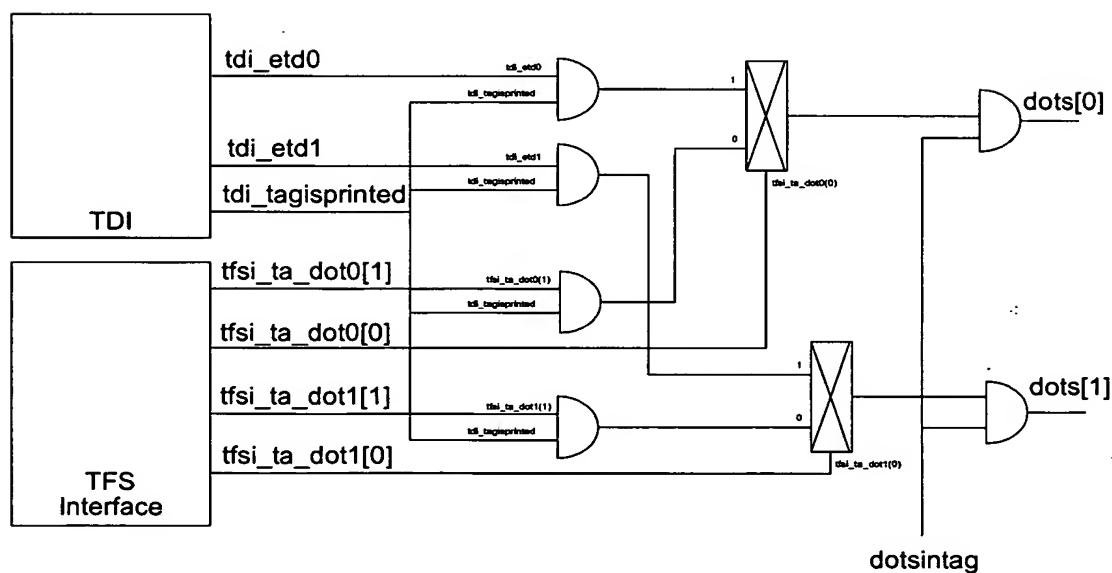


FIG. 192

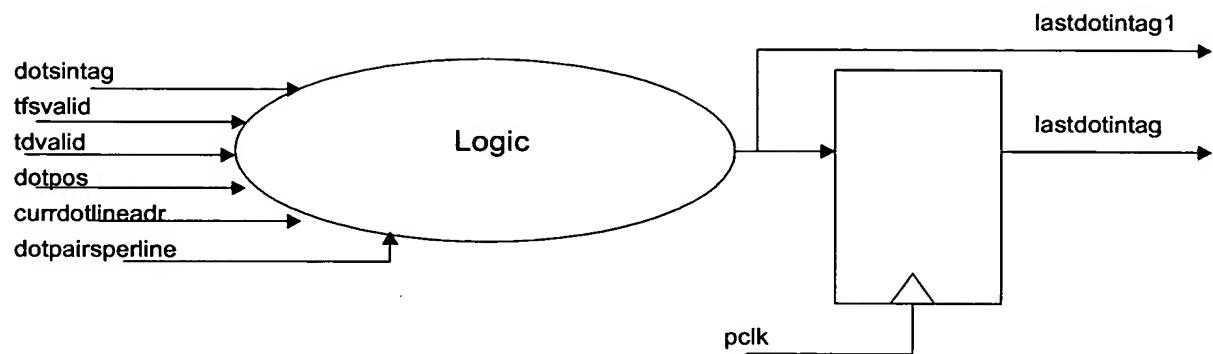


FIG. 193

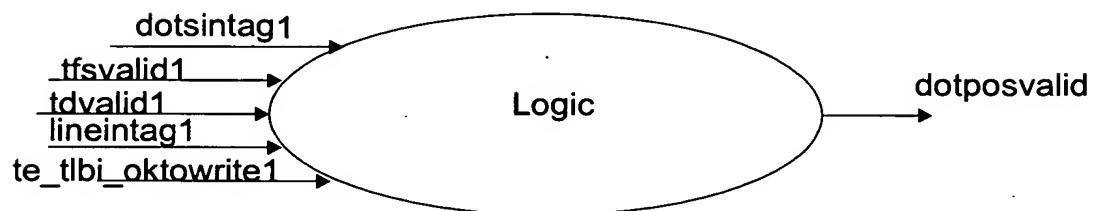


FIG. 194

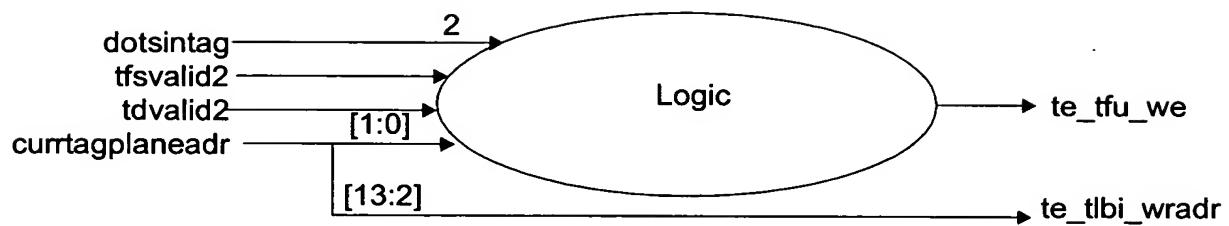


FIG. 195

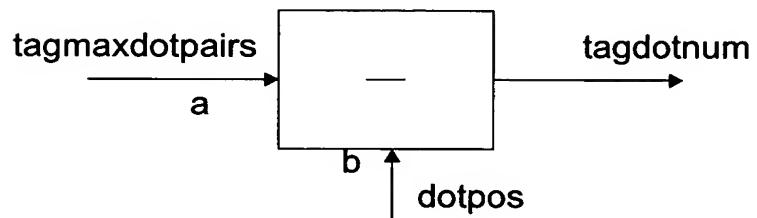


FIG. 196

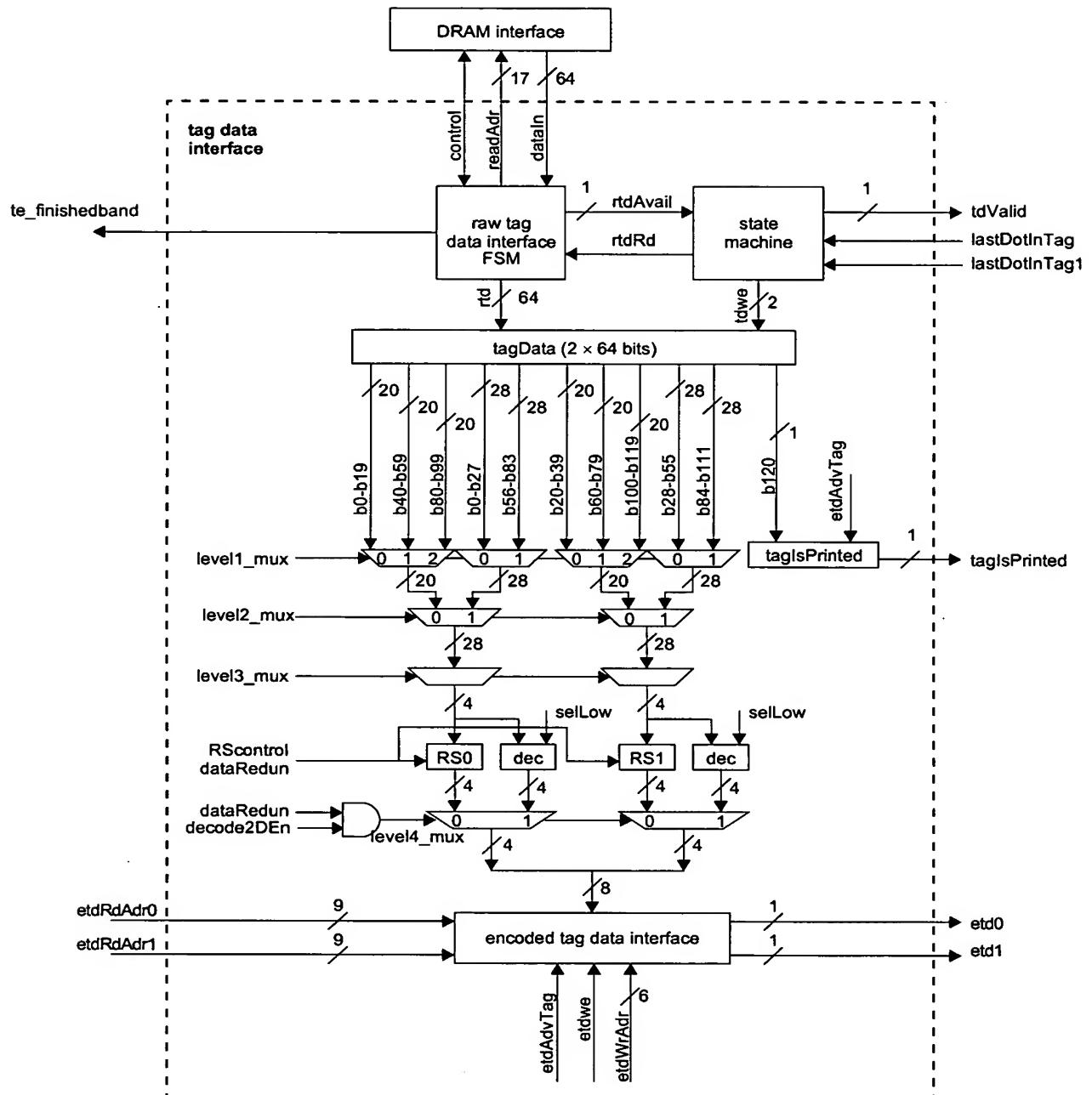


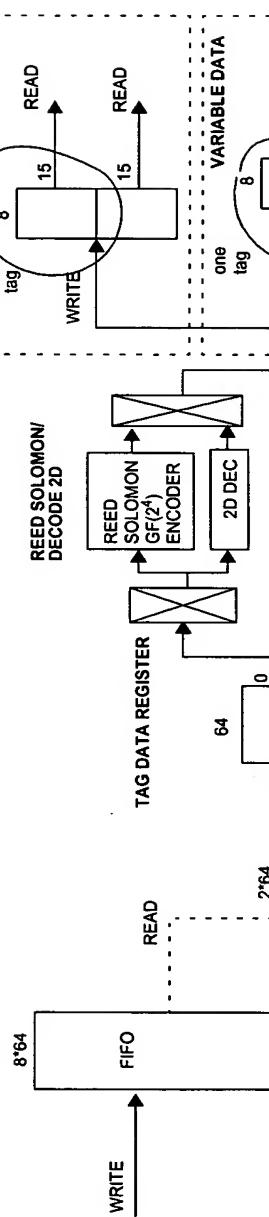
FIG. 197

FIG. 198

ENCODED TAG DATA INTERFACE

- Encoded fixed data can be up to 120 bits long
- Use 2 buffers to allow for 2 simultaneous READs in one cycle.
- These stores hold the fixed tag data for 1 tag.
- Total memory = $120 \times 2 = 240$ bits

RAW TAG DATA INTERFACE



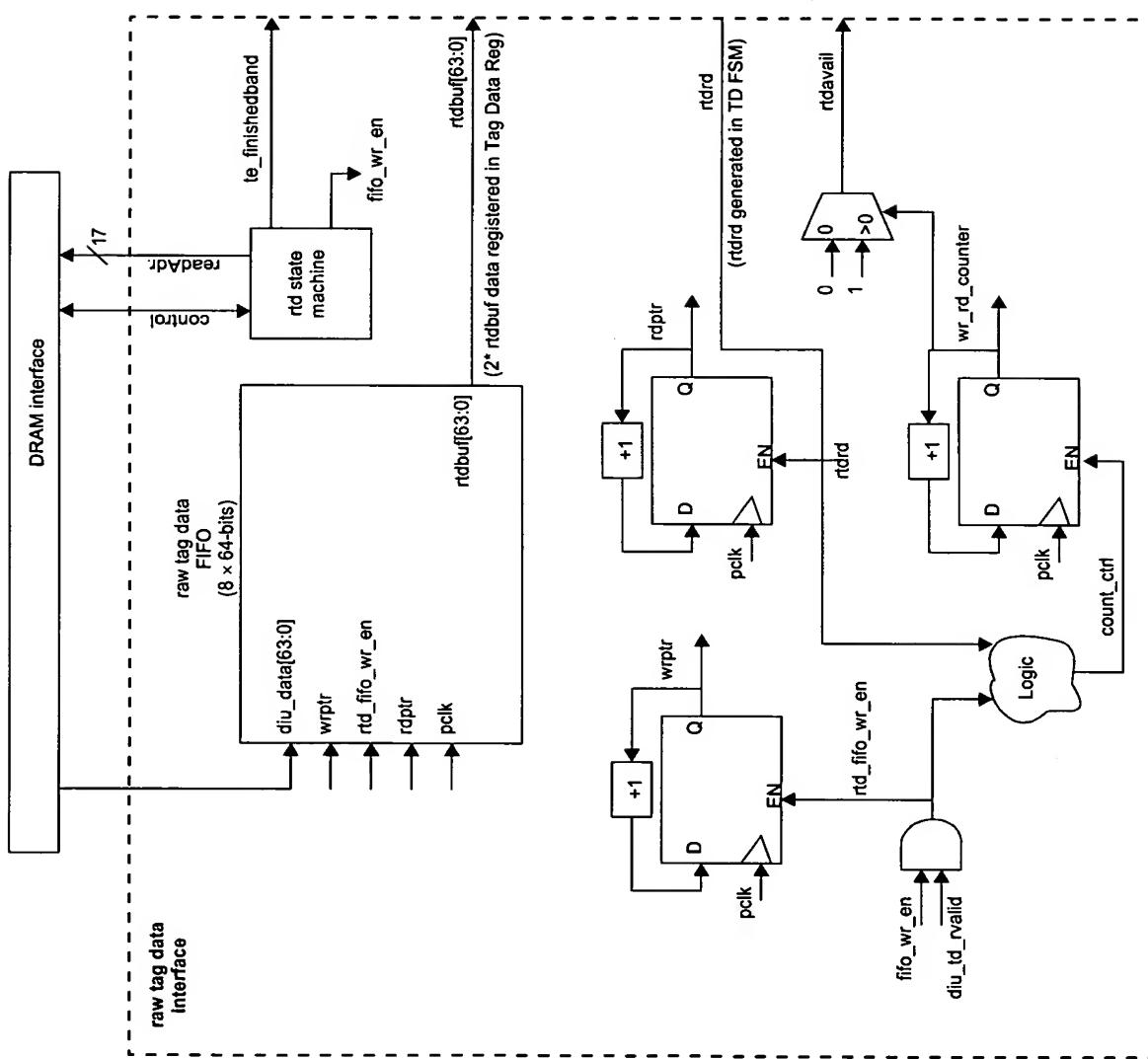
- The requested tag is READ into this 128-bit buffer.
- This buffer can be updated up to 163 times/line.
- Each tag will be loaded at least 126 times.

Have to be able to read one tag's data from the Raw Tag Data Interface, RS encode and store it in the Encoded Tag Data Interface in 63 cycles or less.

- min dots/tag 126 (specified)
- max dots/line = $1600 \times 12.8 = 20480$
- max tags/line = $20480/126 = 163$
- max variable data/tag = 120
- max amount of tag data/line = 120×164
- Split the 120 tag data bits into 2x64-bits (8 spare bits)
- Ajax memory needed for 1 line of tag data = $2 \times 64 \times 164 = 65536$
- Divide this in half to allow for simultaneous READ/WRITE
- Once all this data is loaded it will be valid for at least 126 lines.
- From the specification, we must be able to process 2 dots/cycle.
- 126 lines contains $20480 \times 126 = 2580480$ dots.
- Therefore the data will be updated at most every 1290240 cycles.
- Total memory = $164 \times 2 \times 64 = 20992$ bits
- The store uses 9-bit addressing. Bit 9 indicates which buffer.
- Once printing has started each half buffer has 1/2 a line in which to be loaded i.e. for a 12.8 inch line it has 10240 dots or 5120 cycles for an 8 inch line it has 6400 dots or 3200 cycles

- Encoded variable data can be up to 360 bits long
- Use 2 buffers to allow for 2 simultaneous READs in one cycle.
- Use 2 buffers to allow for simultaneous READ/WRITE
- Total memory = $360 \times 2 \times 2 = 1280$ bits
- Min tag width = 126 bits so the fastest that 1 tag can be read = $126/2 = 63$ cycles

FIG. 199



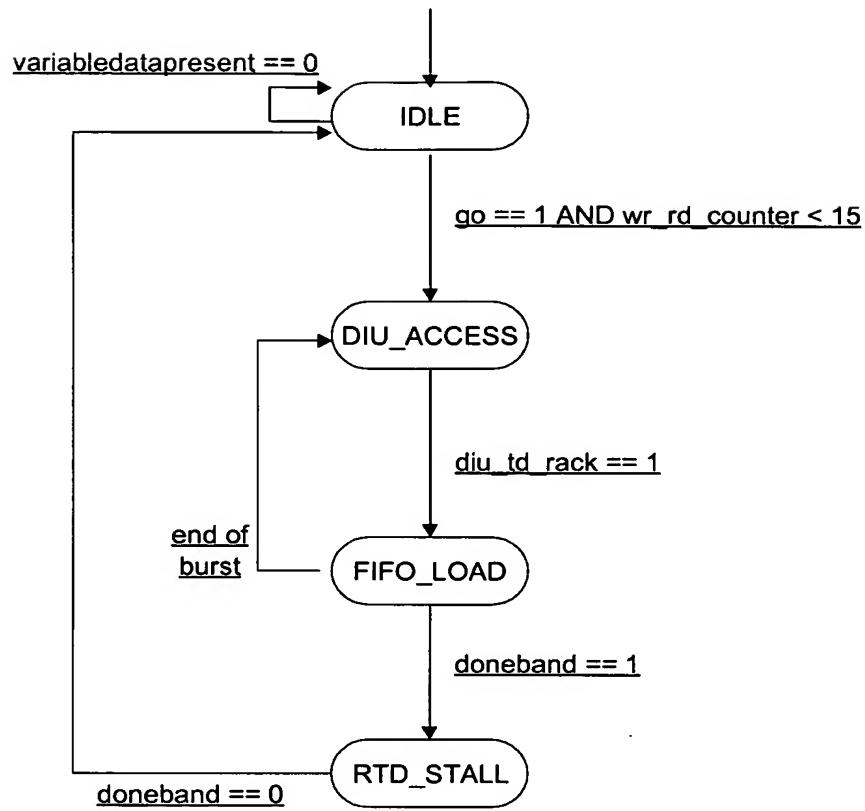


FIG. 200

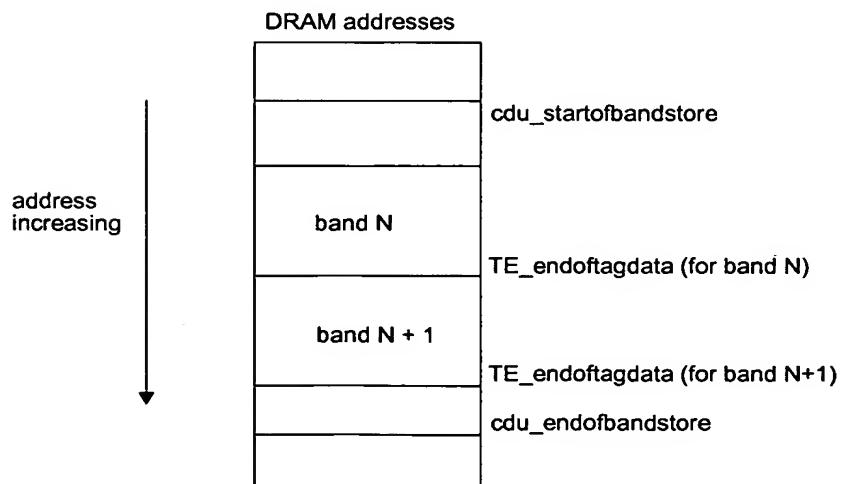


FIG. 201

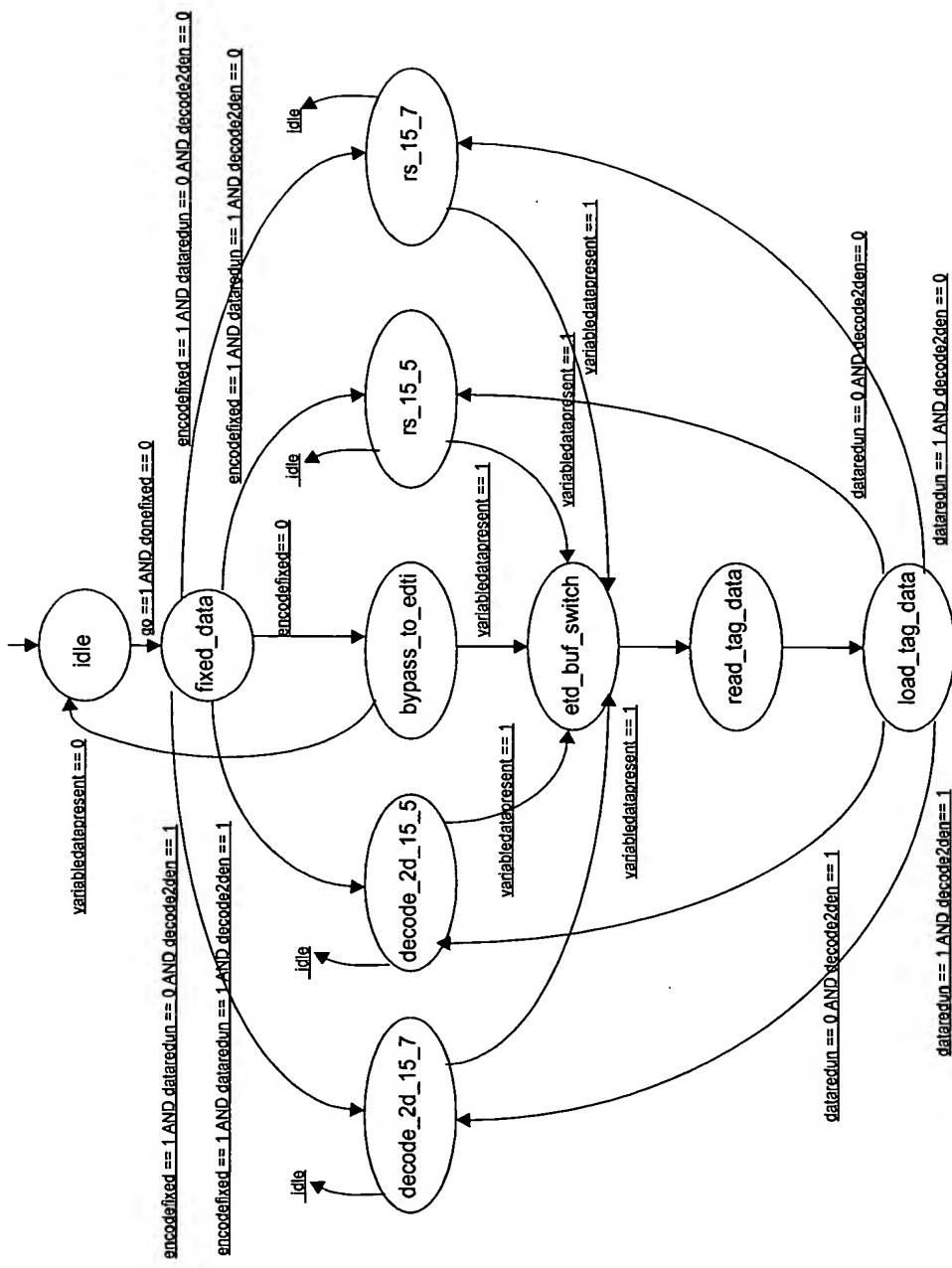


FIG. 202

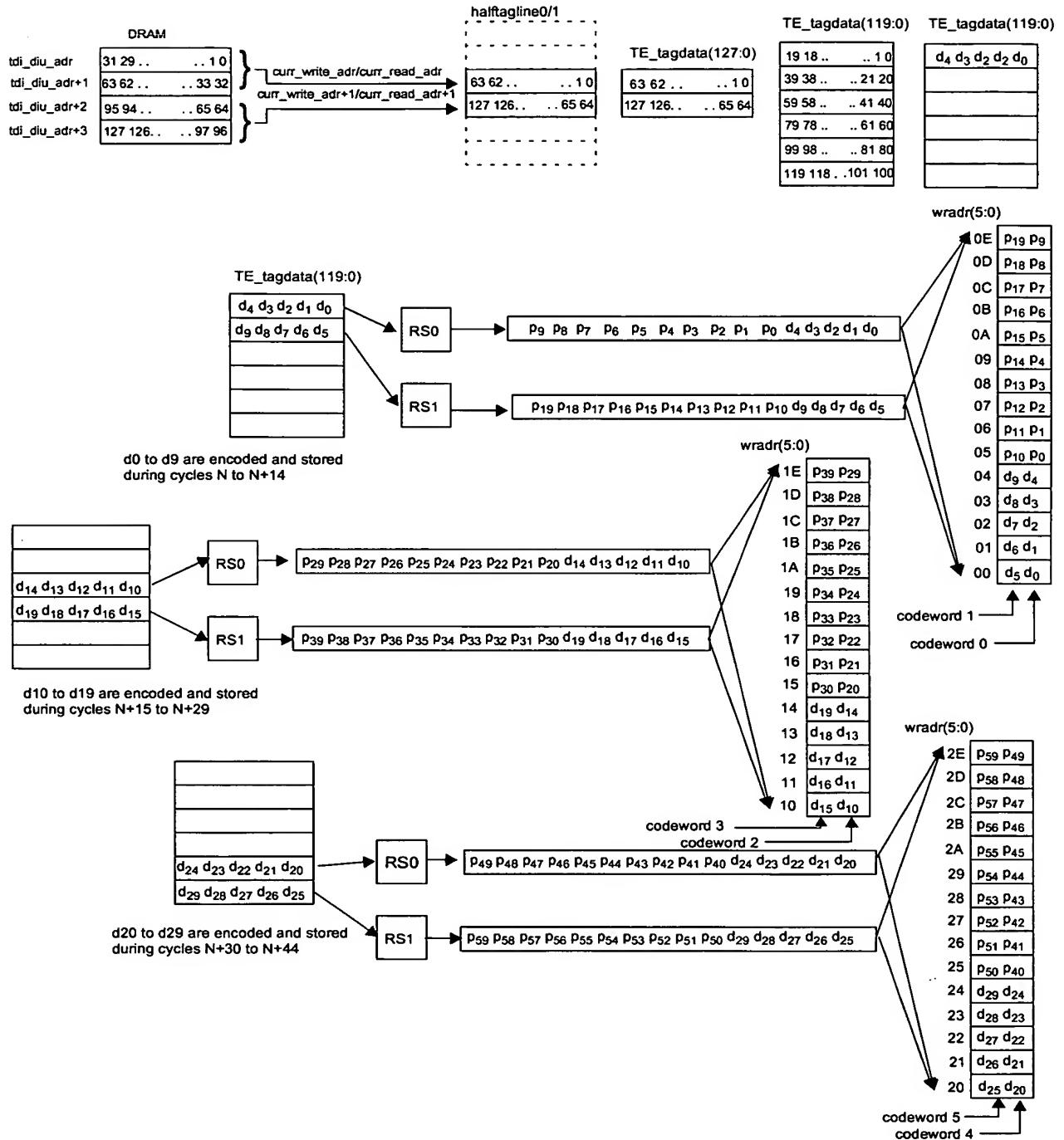


FIG. 203

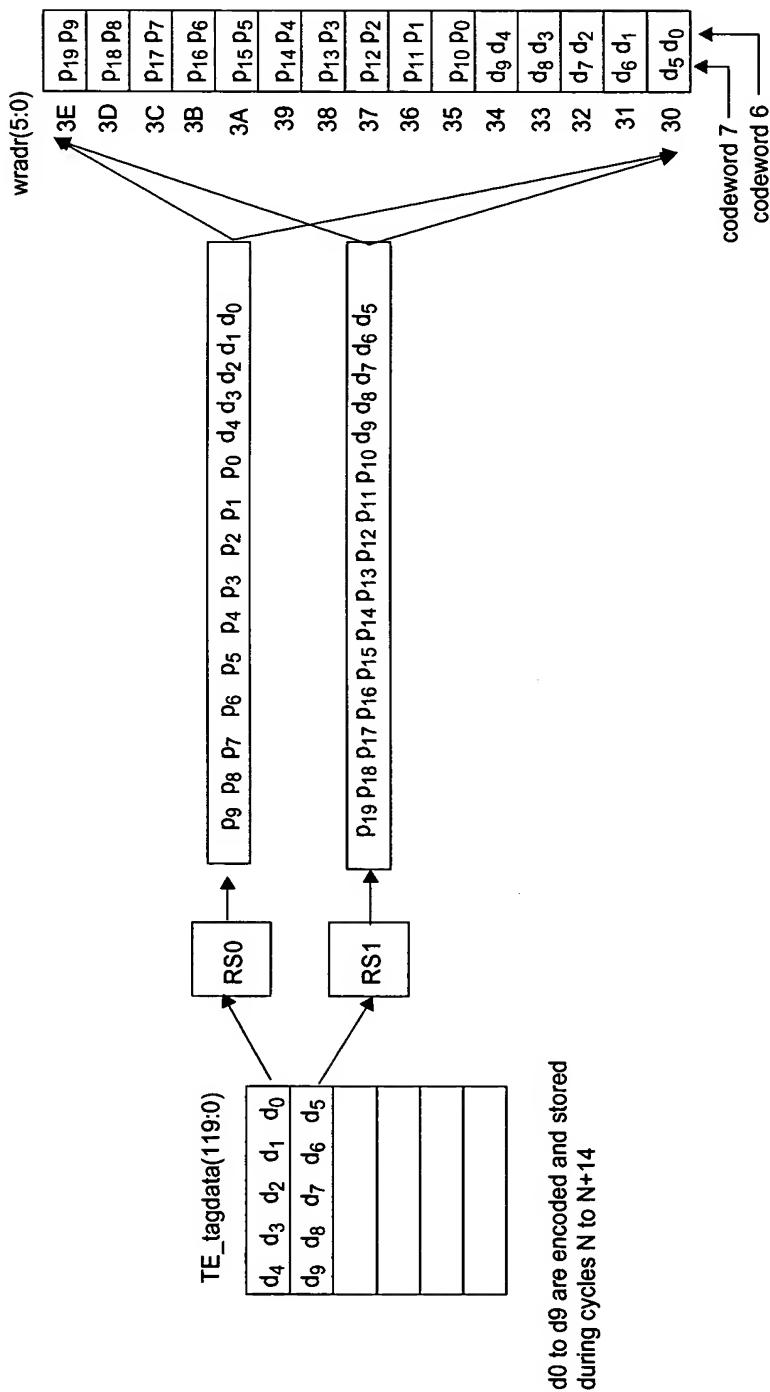


FIG. 204

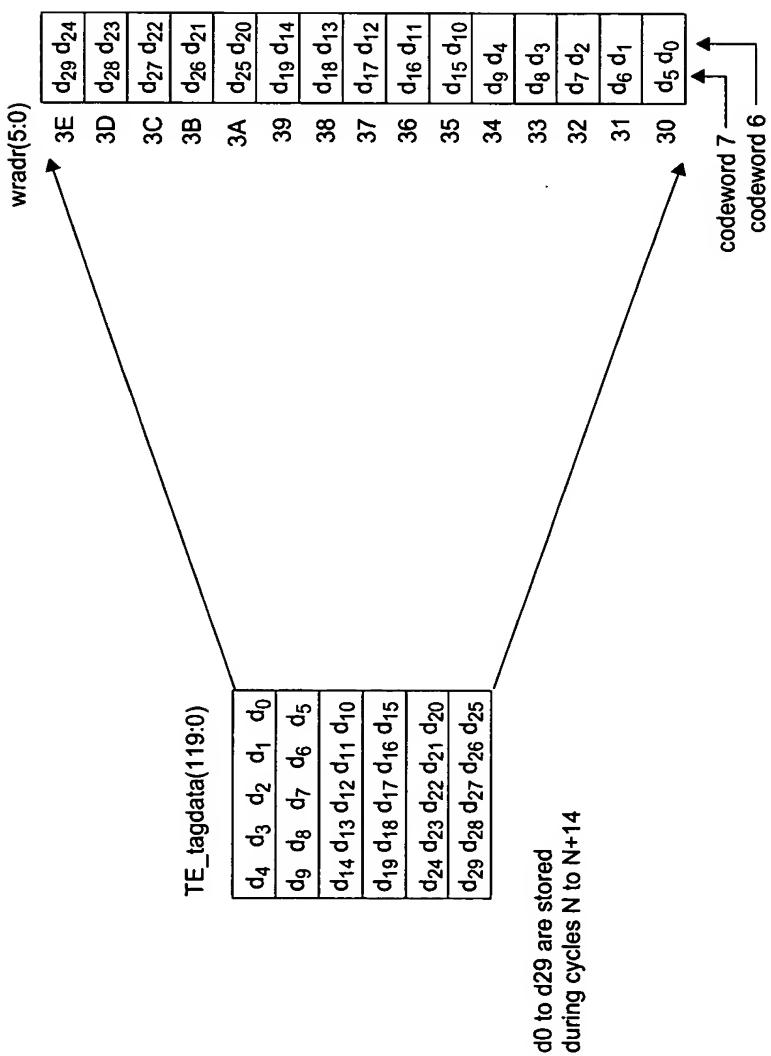


FIG. 205

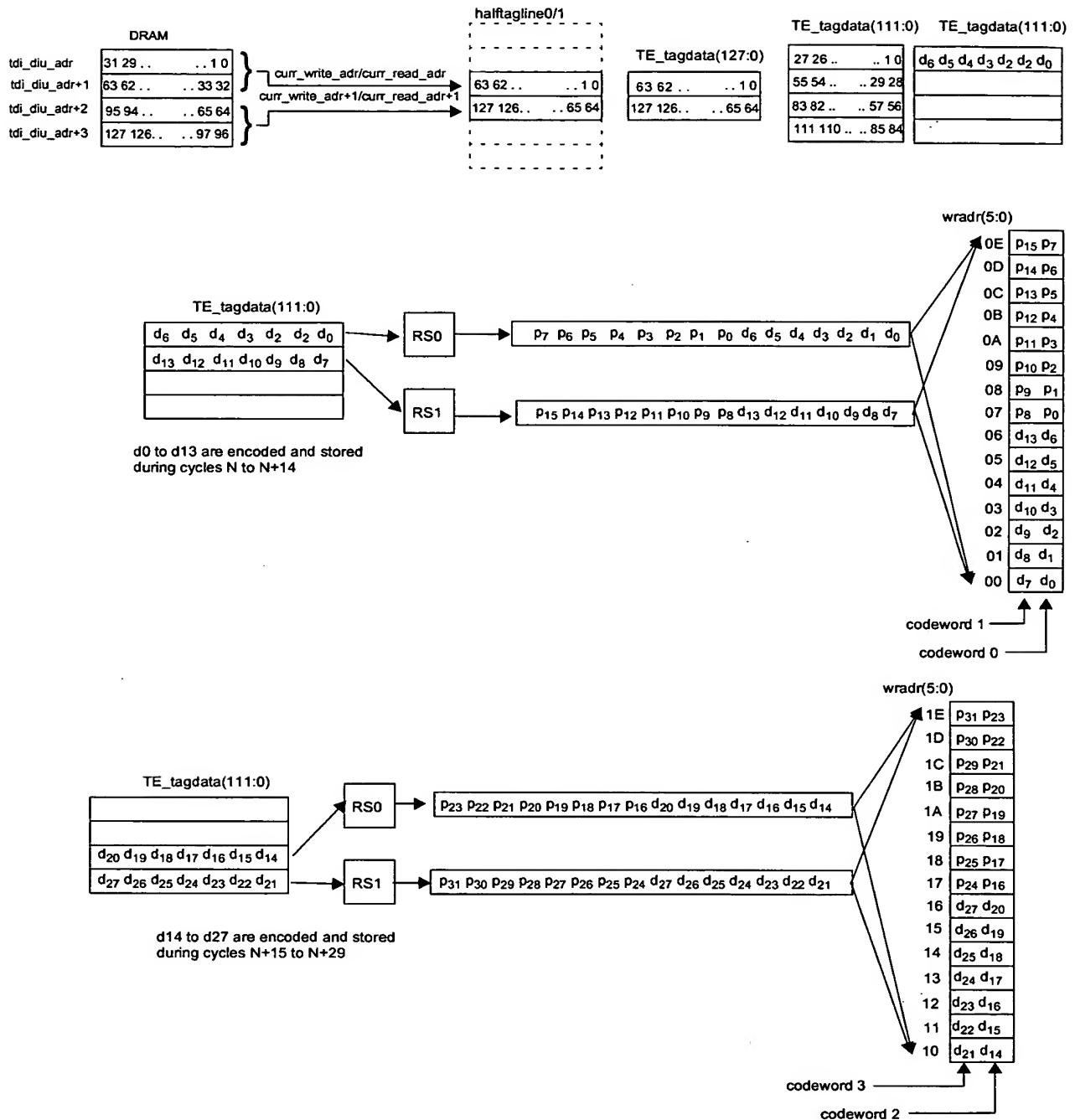


FIG. 206

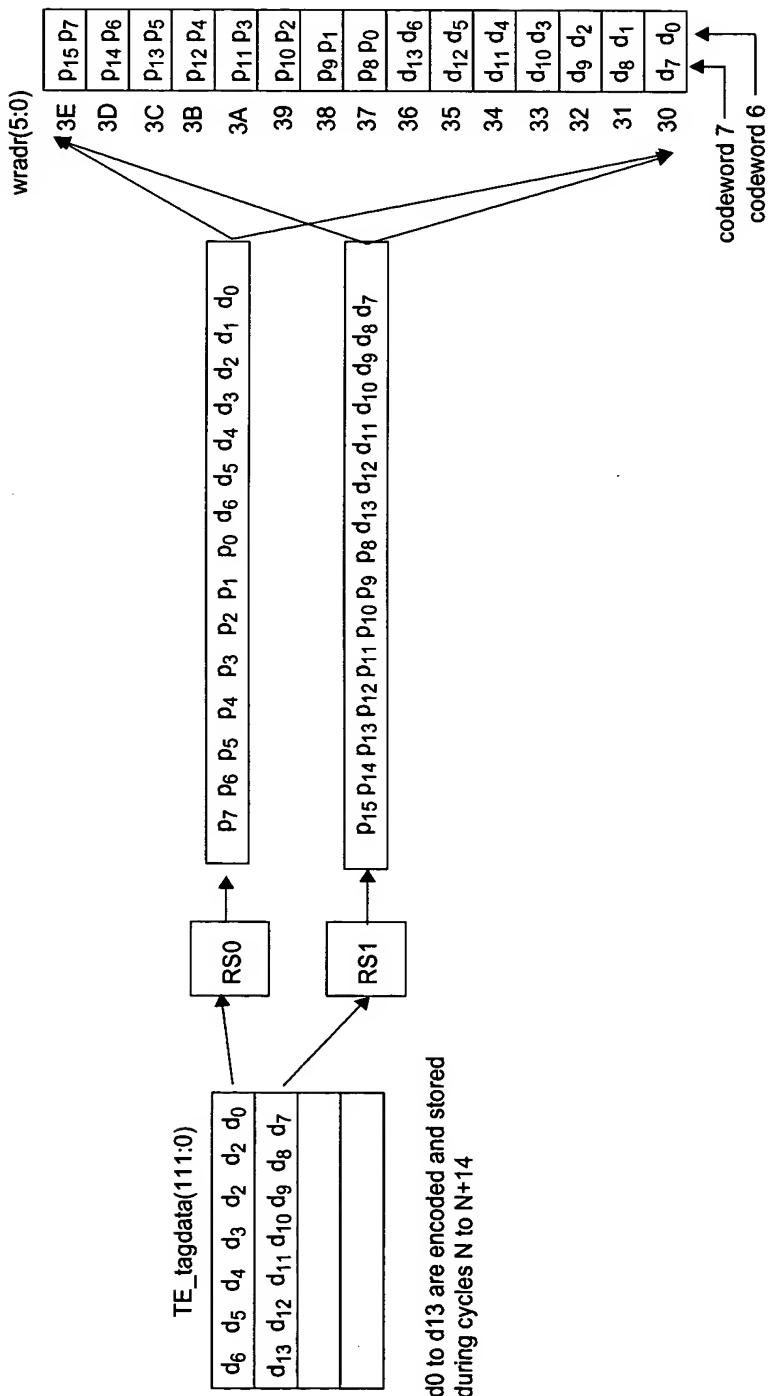


FIG. 207

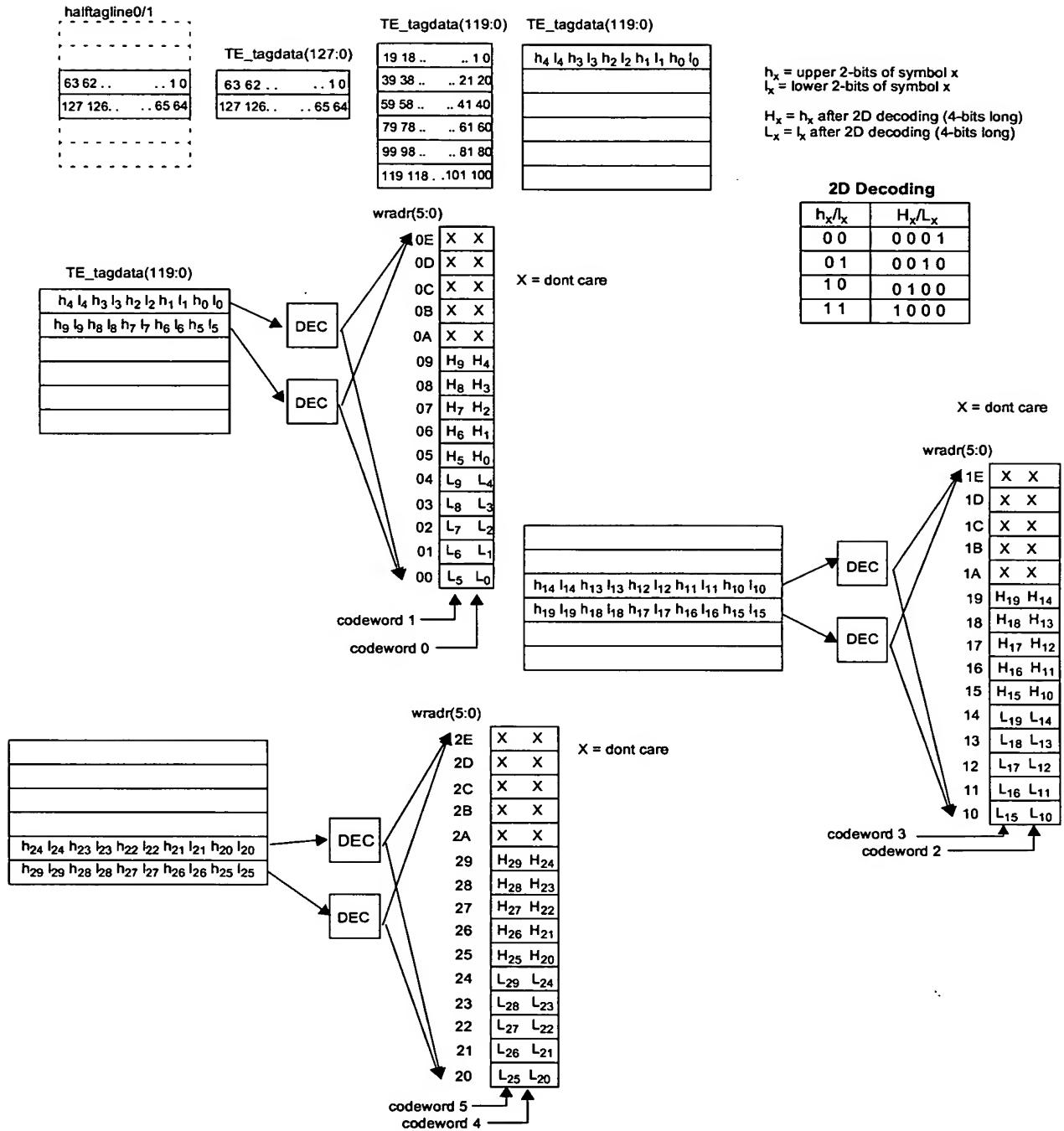


FIG. 208



FIG. 209

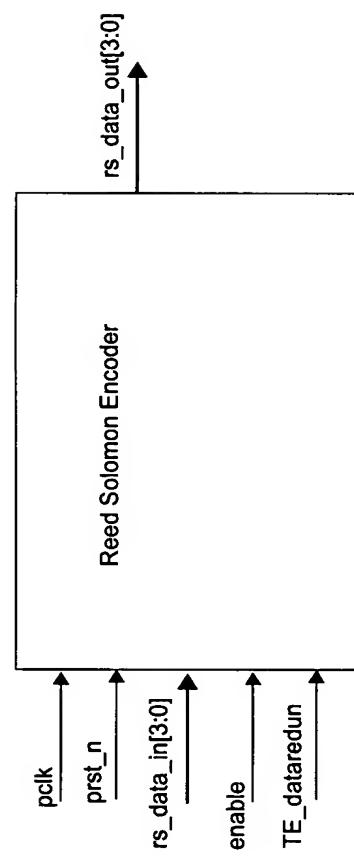


FIG. 210

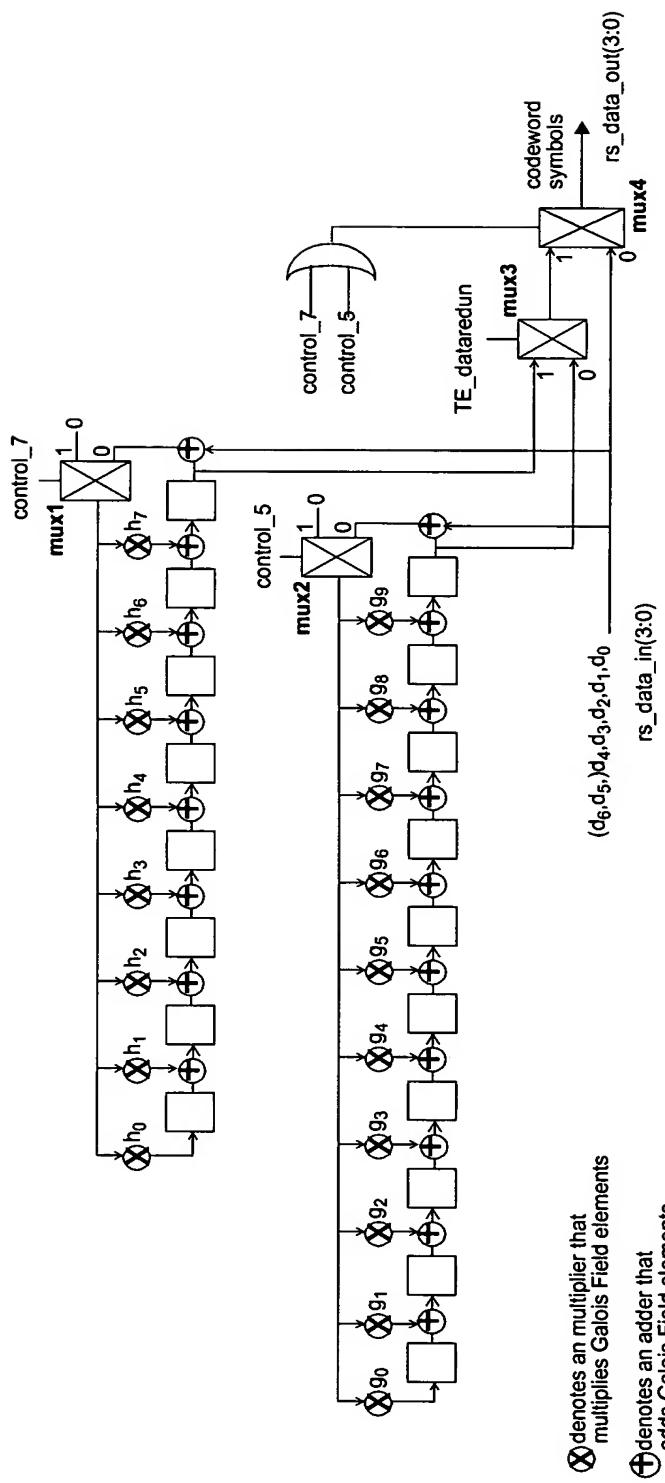


FIG. 211

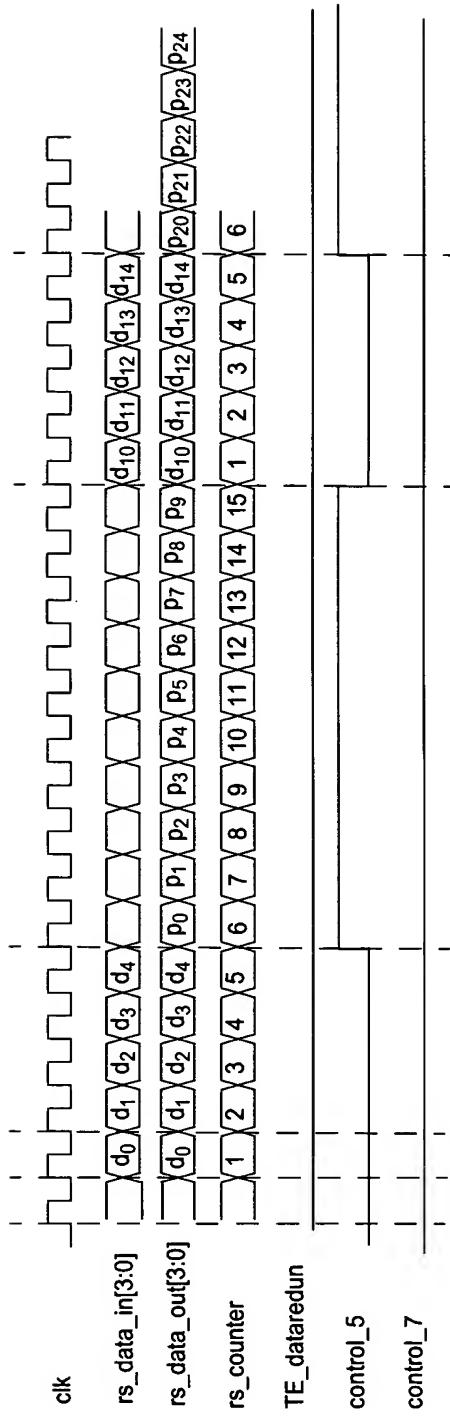


FIG. 212

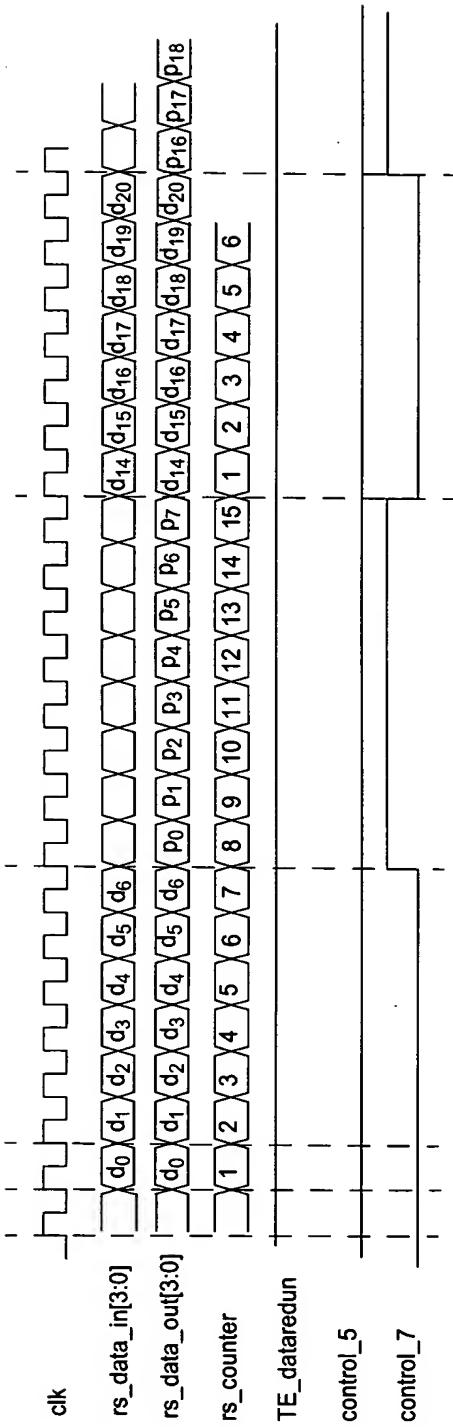


FIG. 213

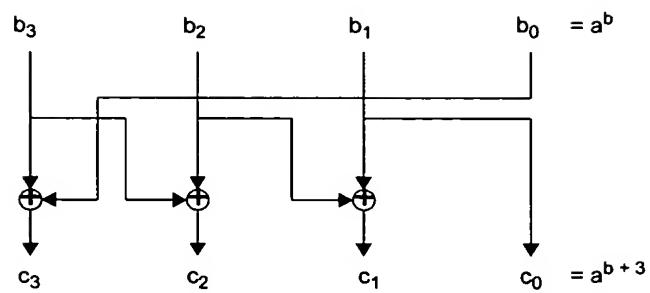


FIG. 214

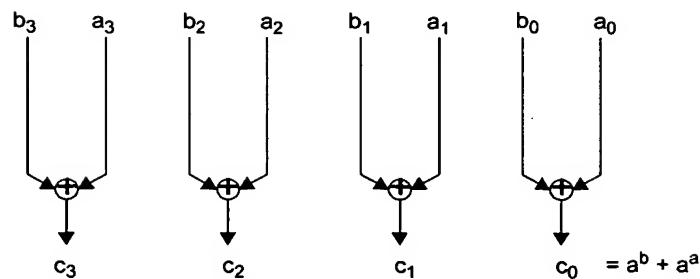


FIG. 215

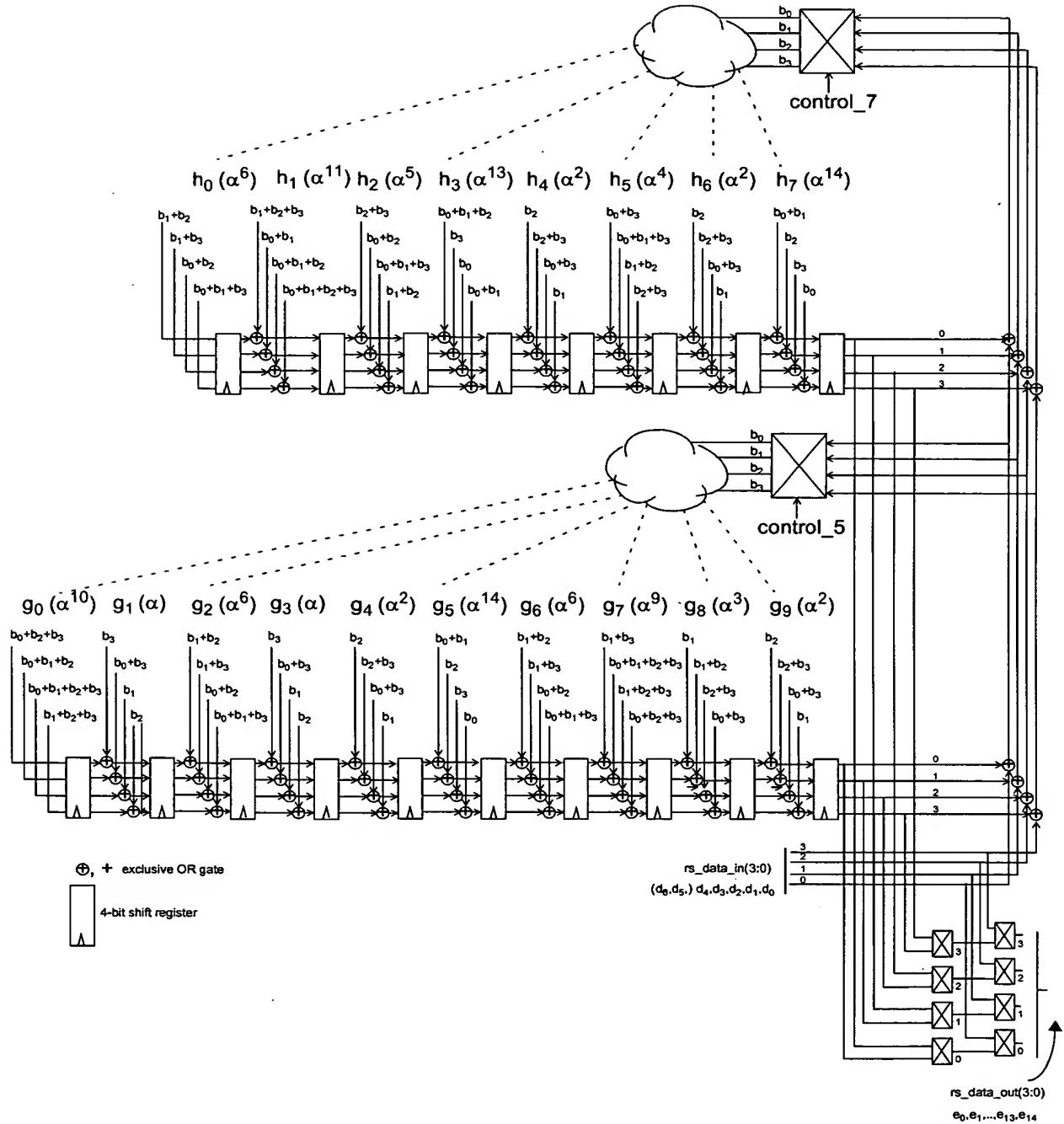


FIG. 216

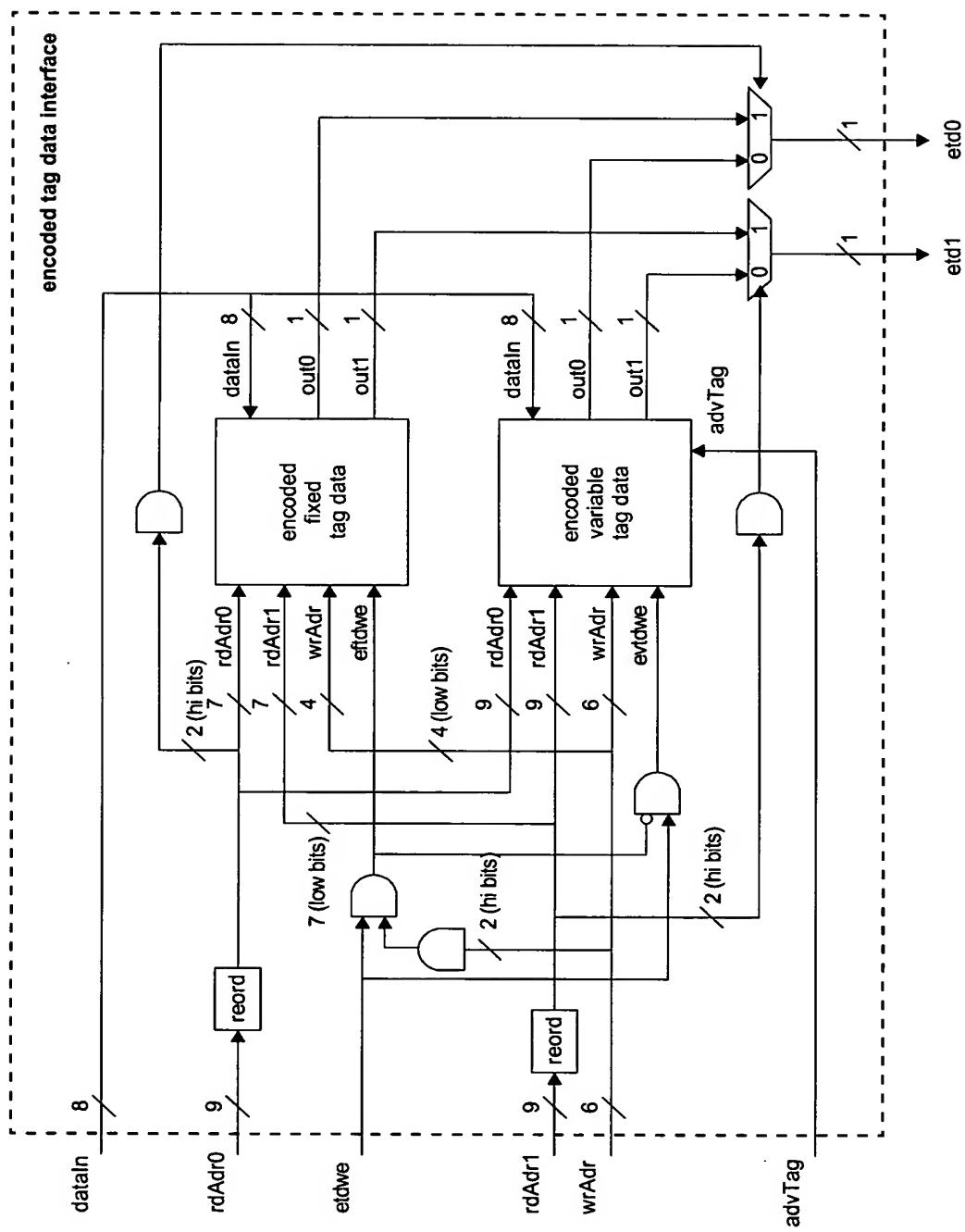


FIG. 217

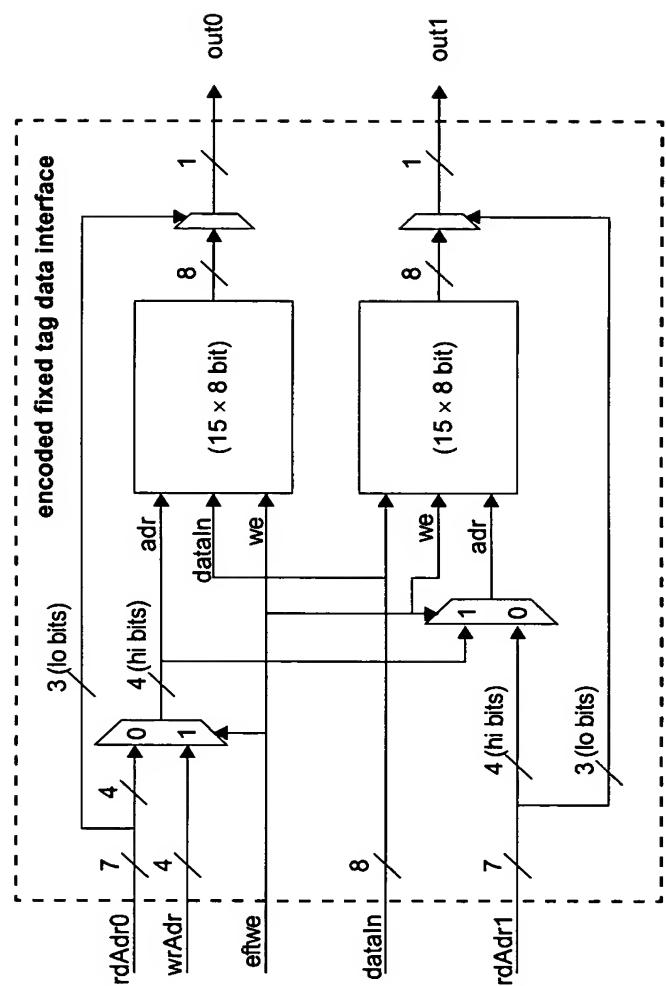


FIG. 218

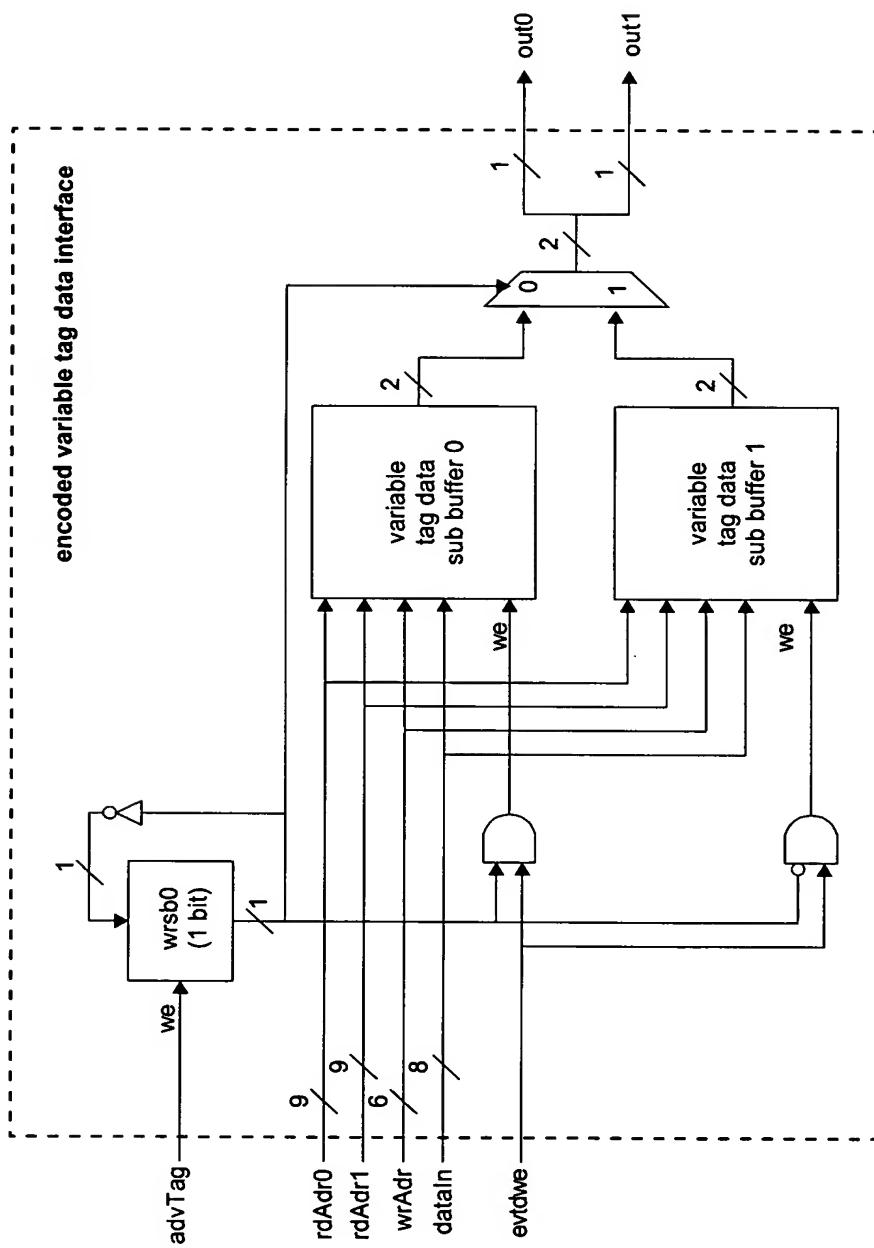


FIG. 219

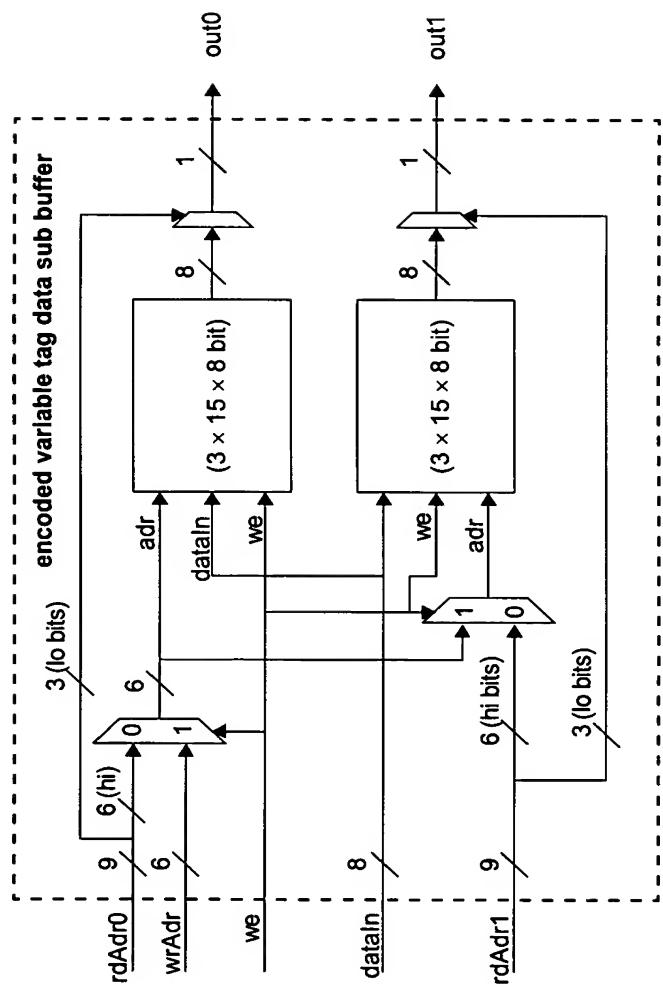


FIG. 220

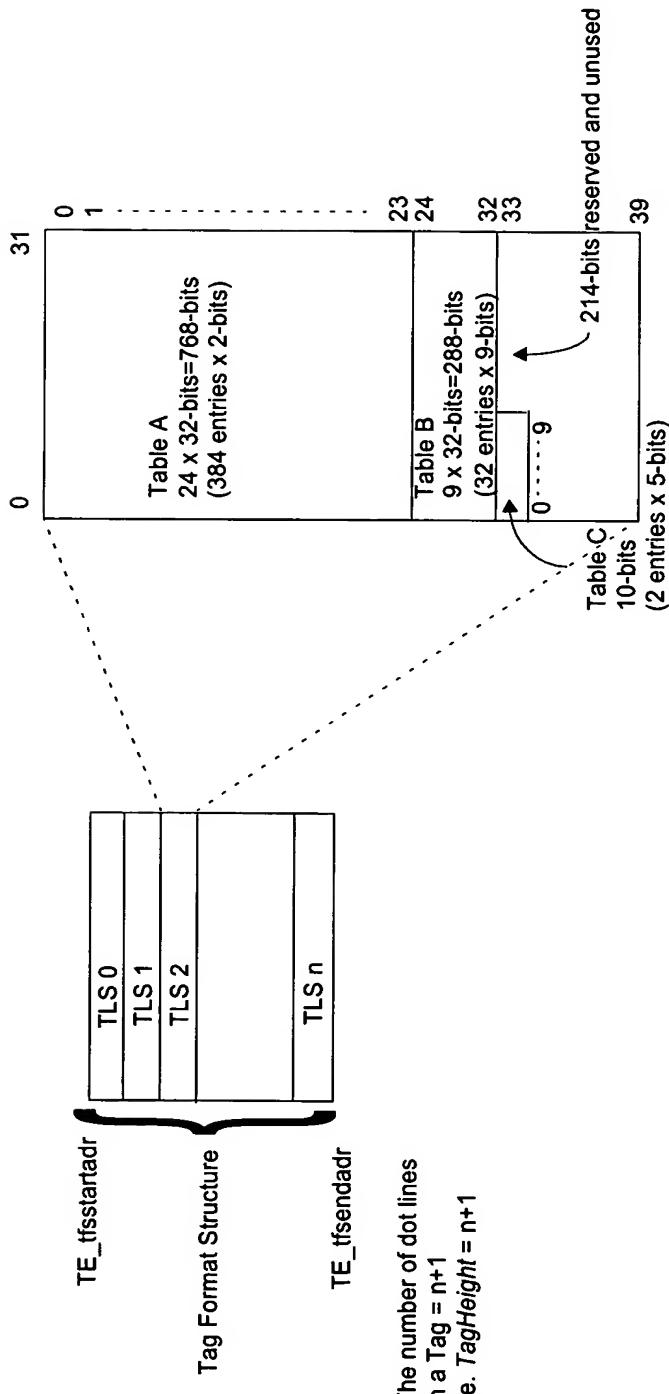


FIG. 221

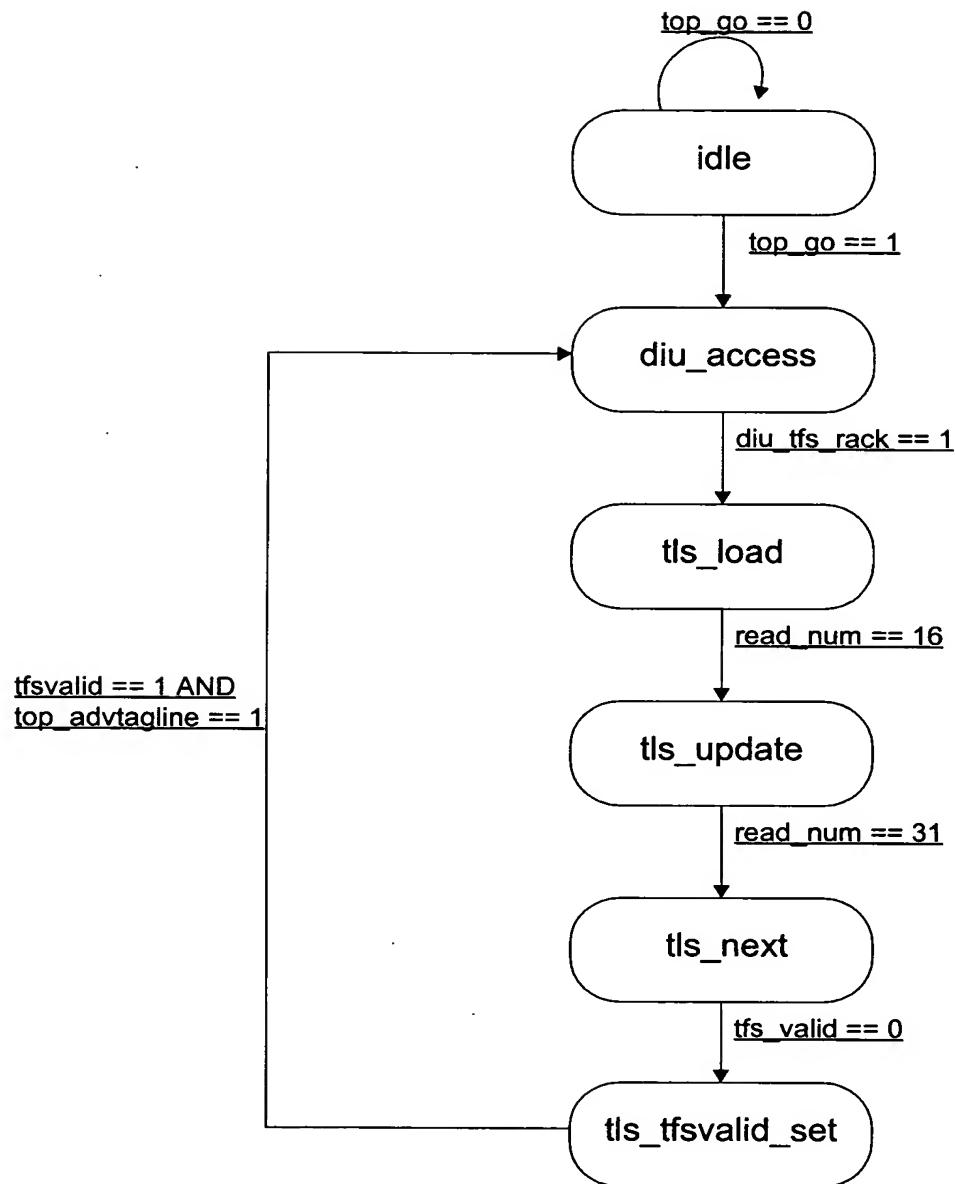


FIG. 222

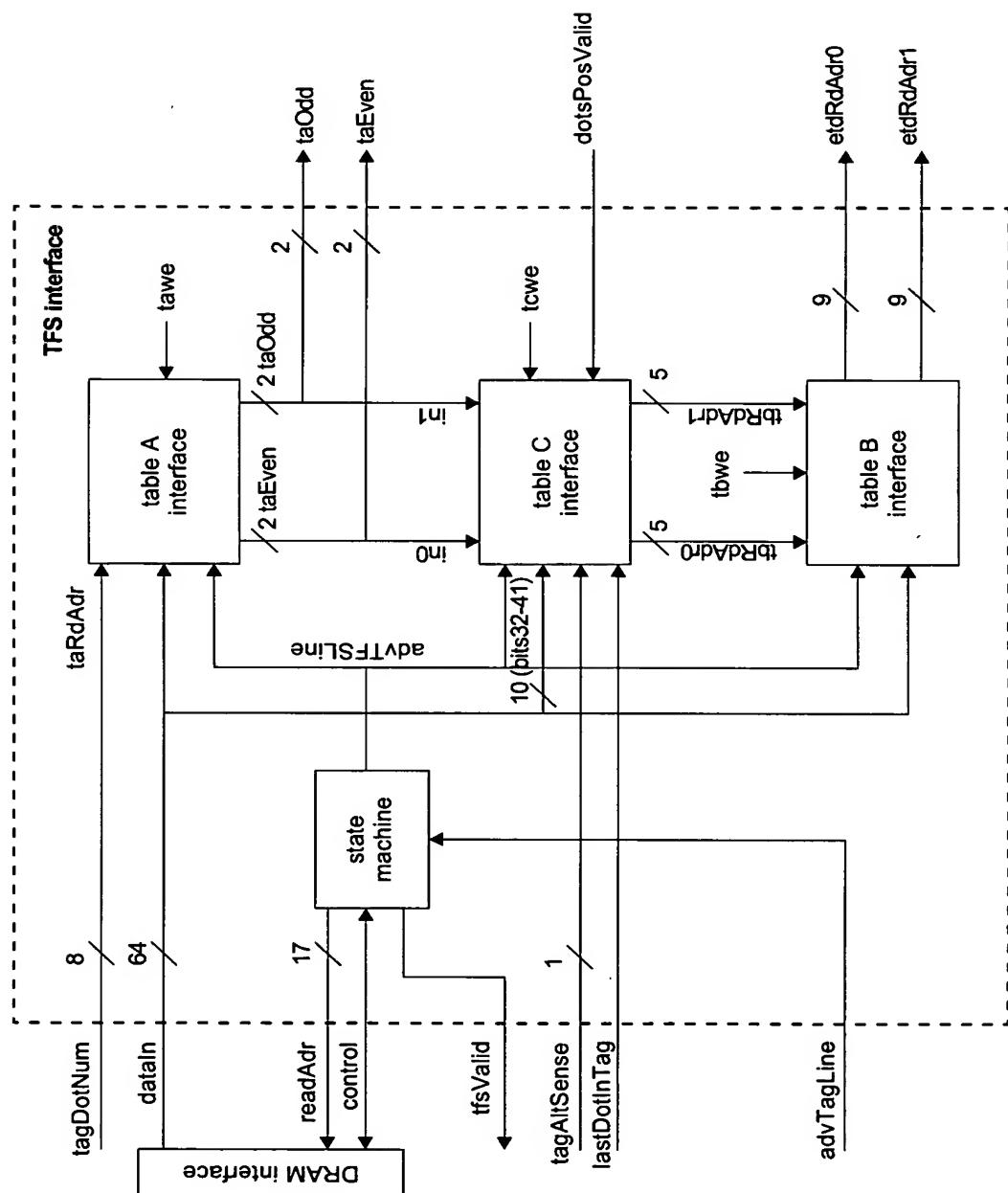


FIG. 223

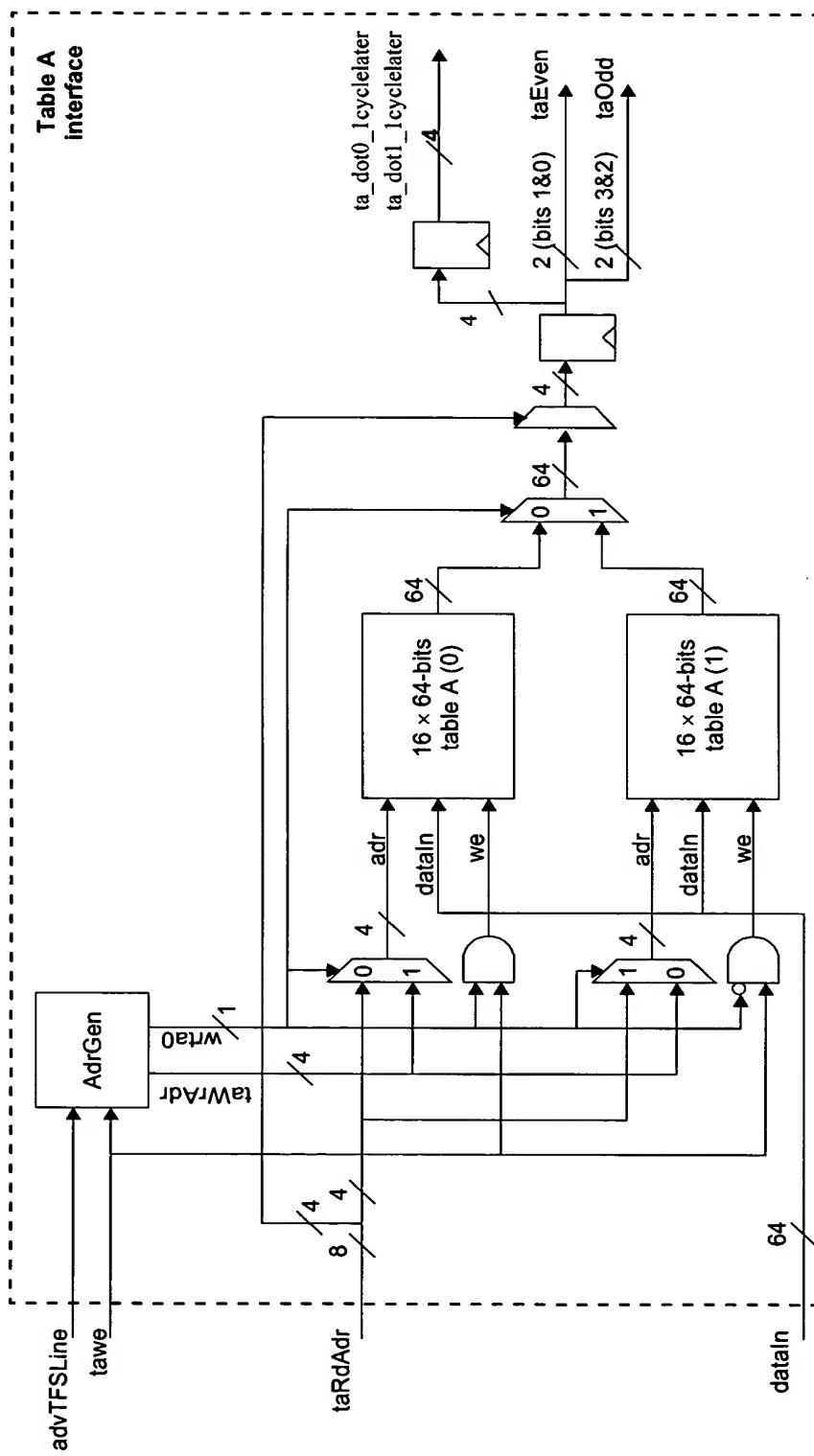


FIG. 224

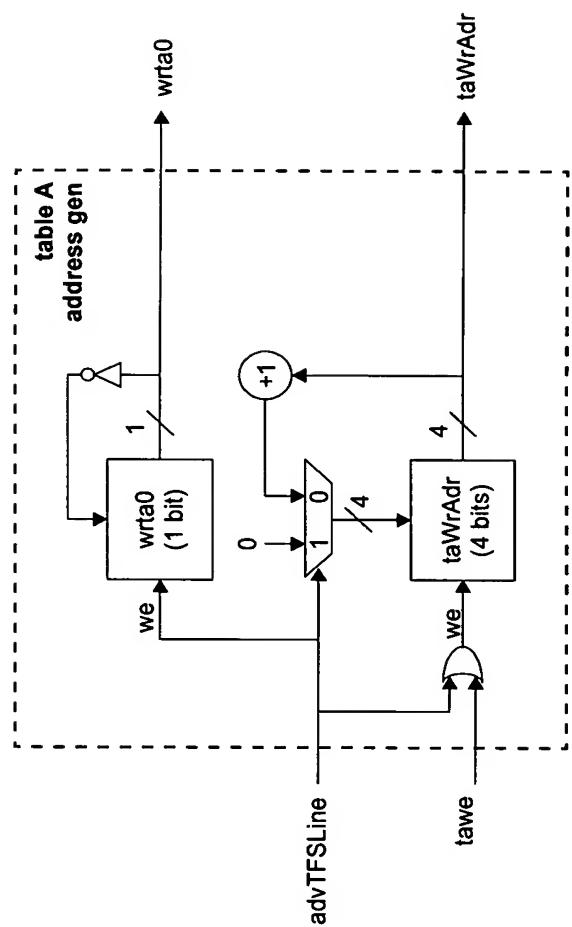


FIG. 225

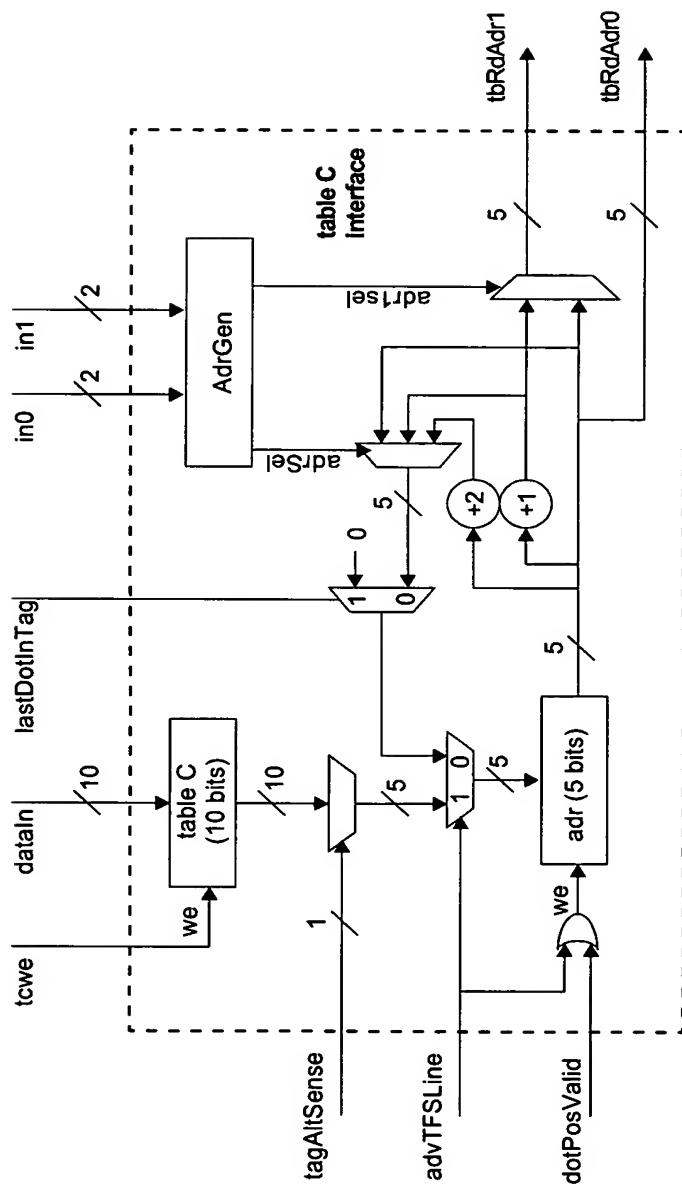


FIG. 226

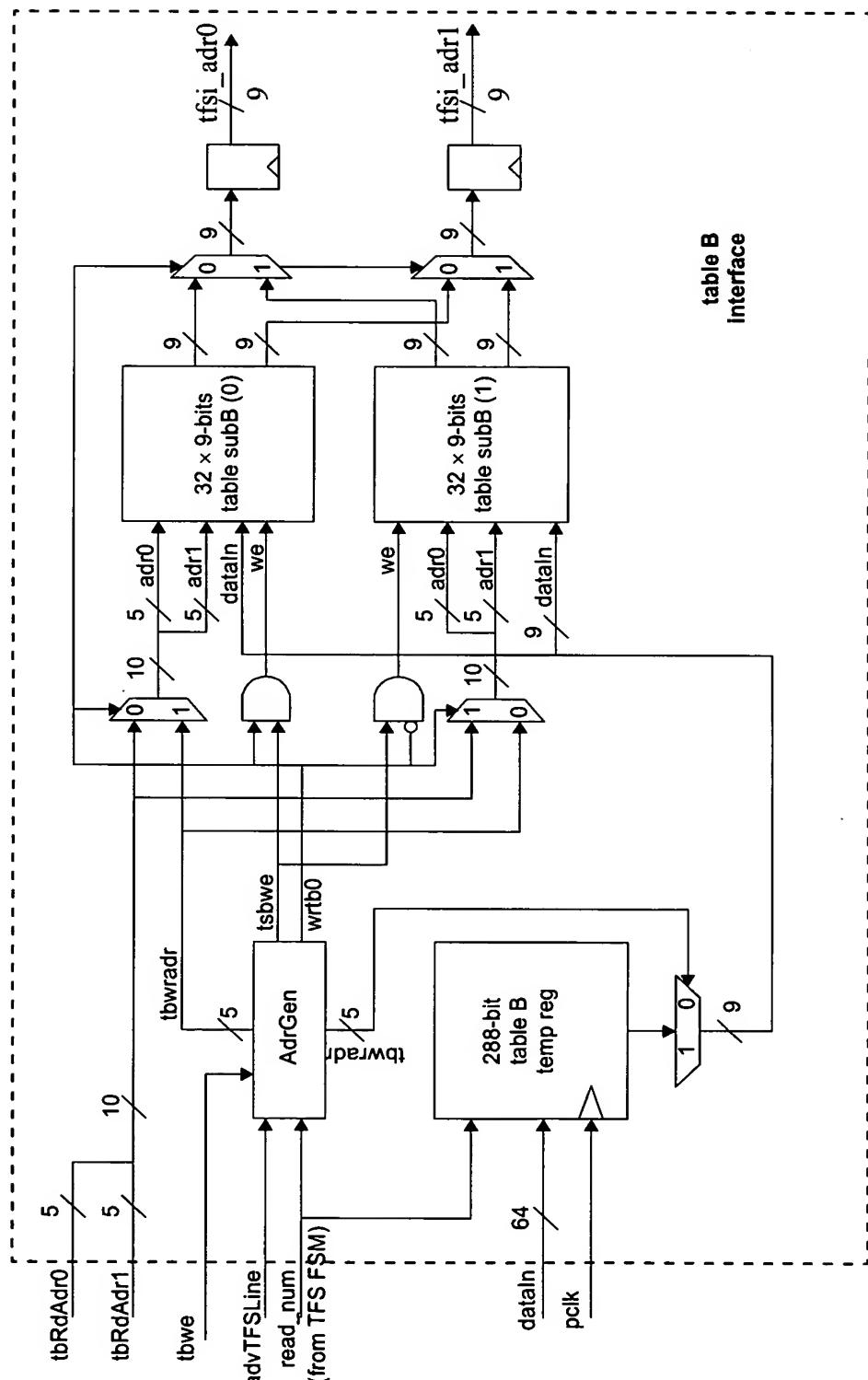


FIG. 227

FIG. 228

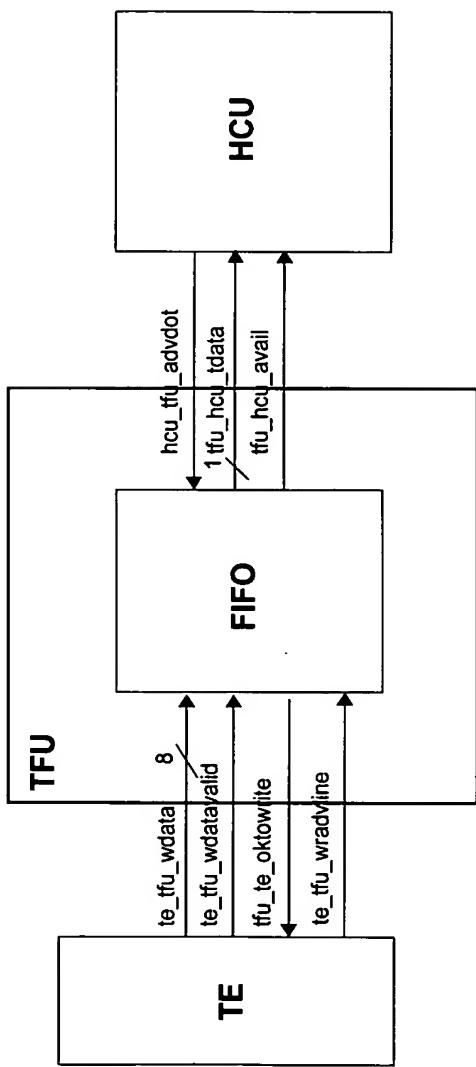
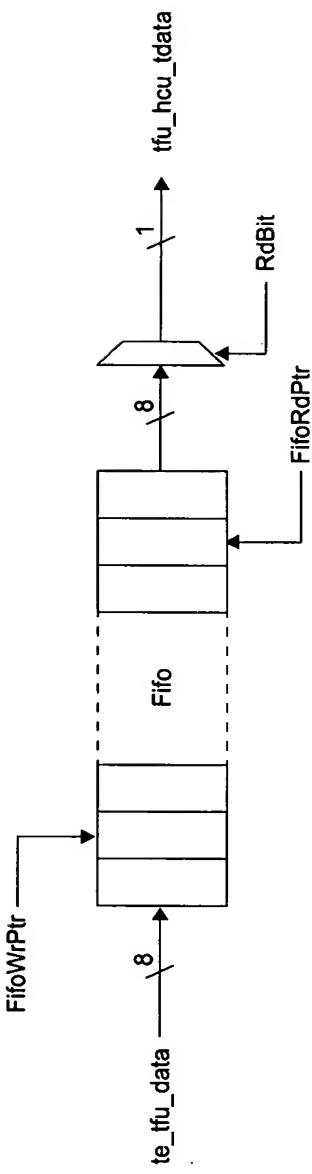


FIG. 229



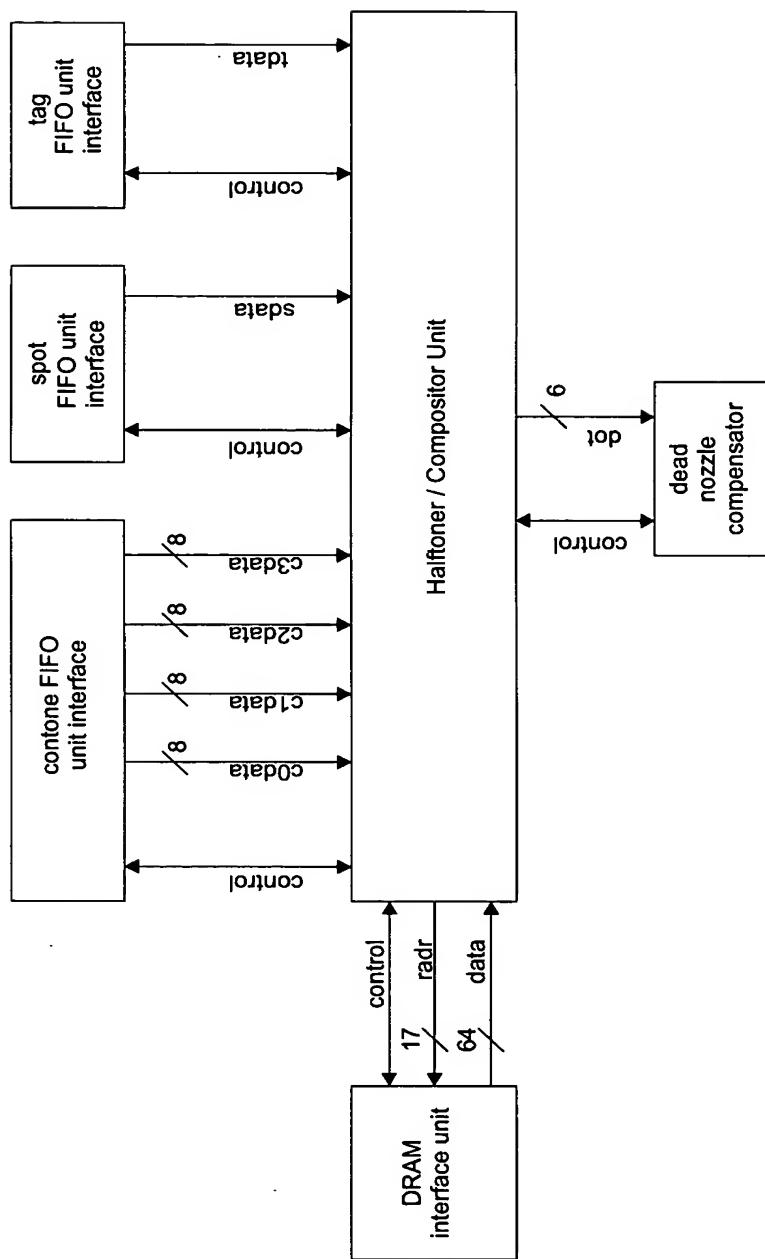


FIG. 230

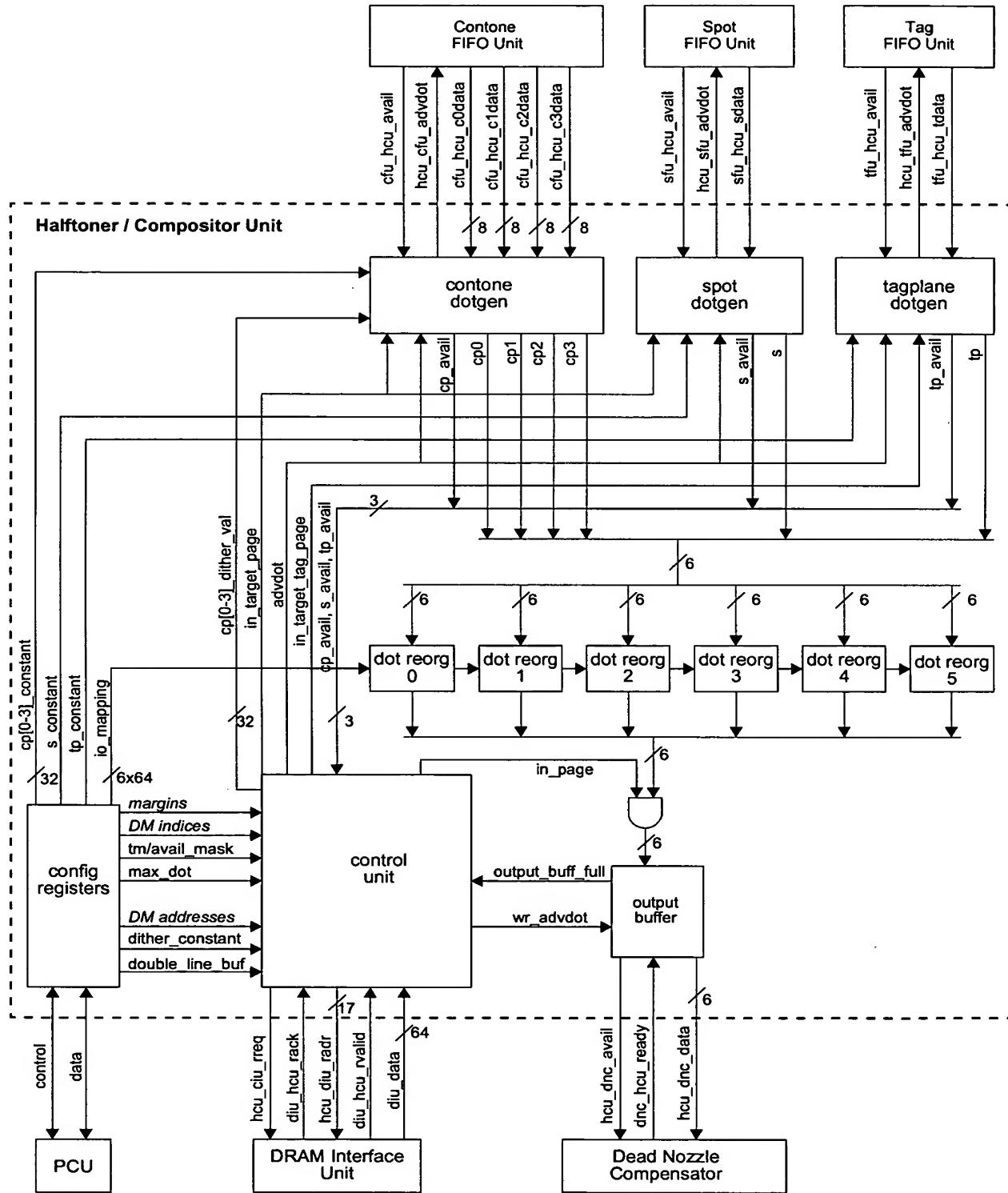


FIG. 231

FIG. 232

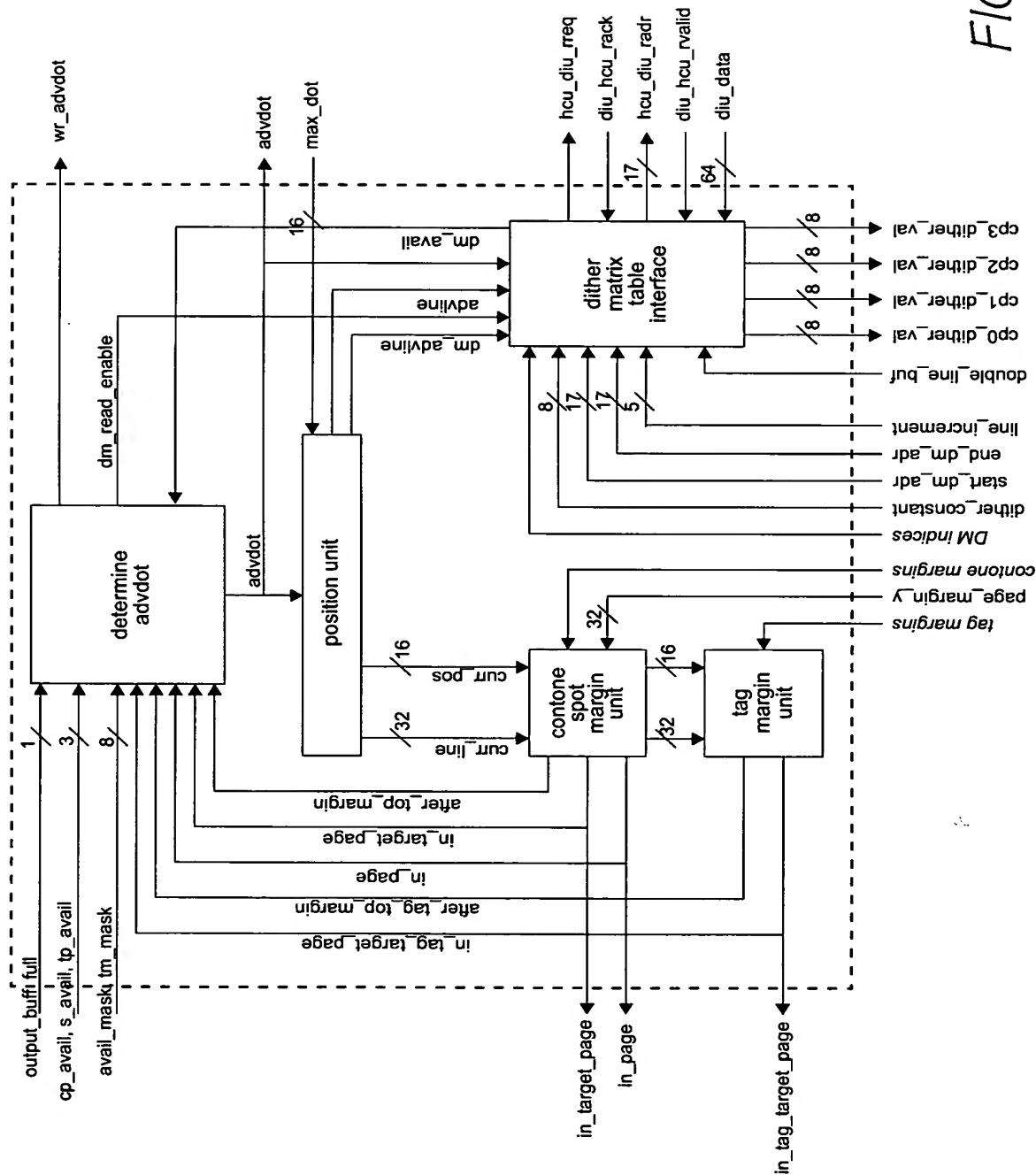
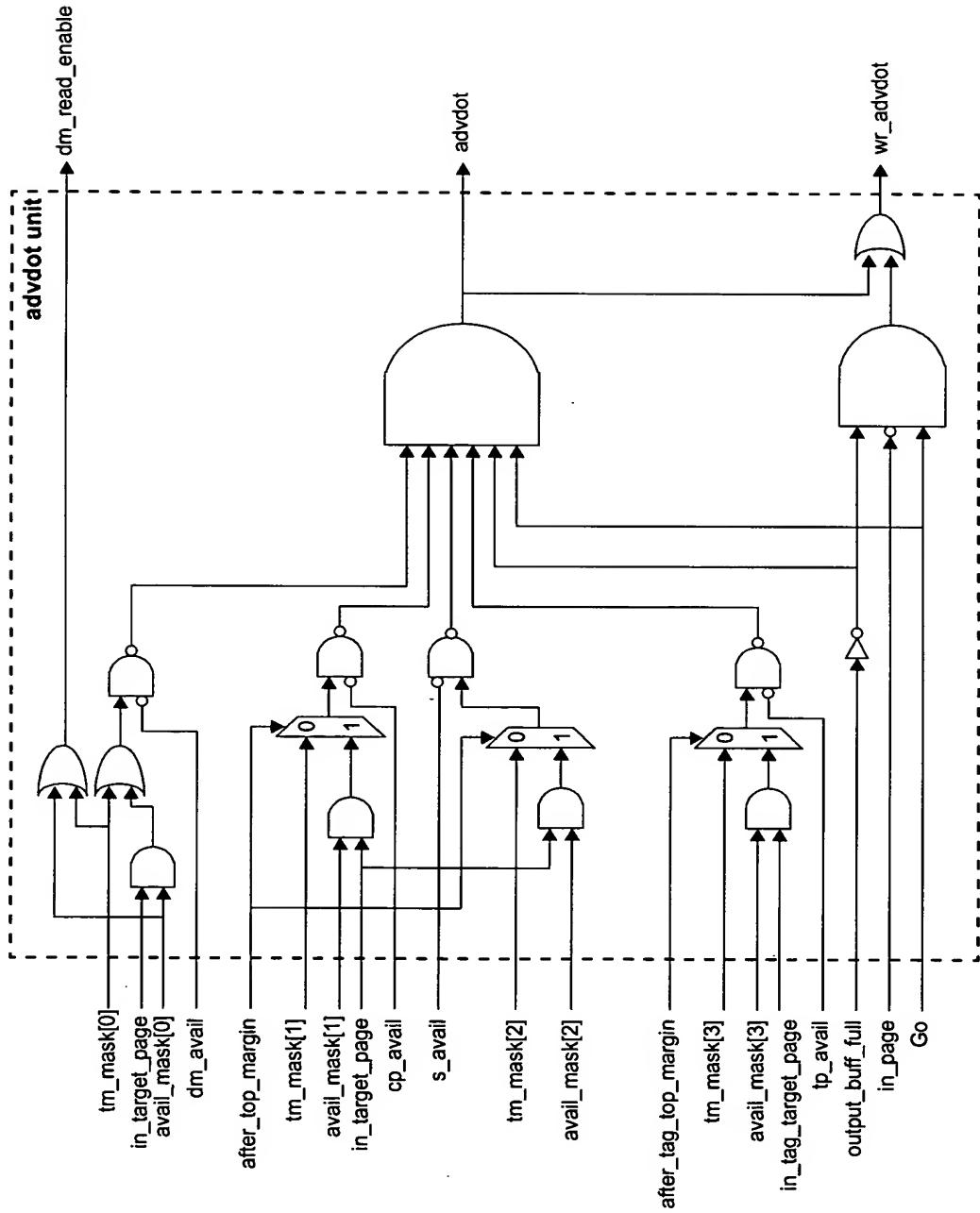


FIG. 233



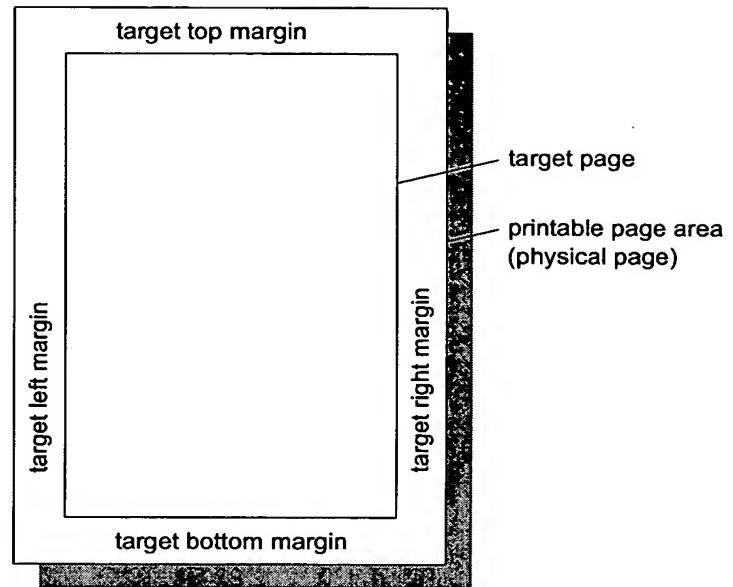


FIG. 234

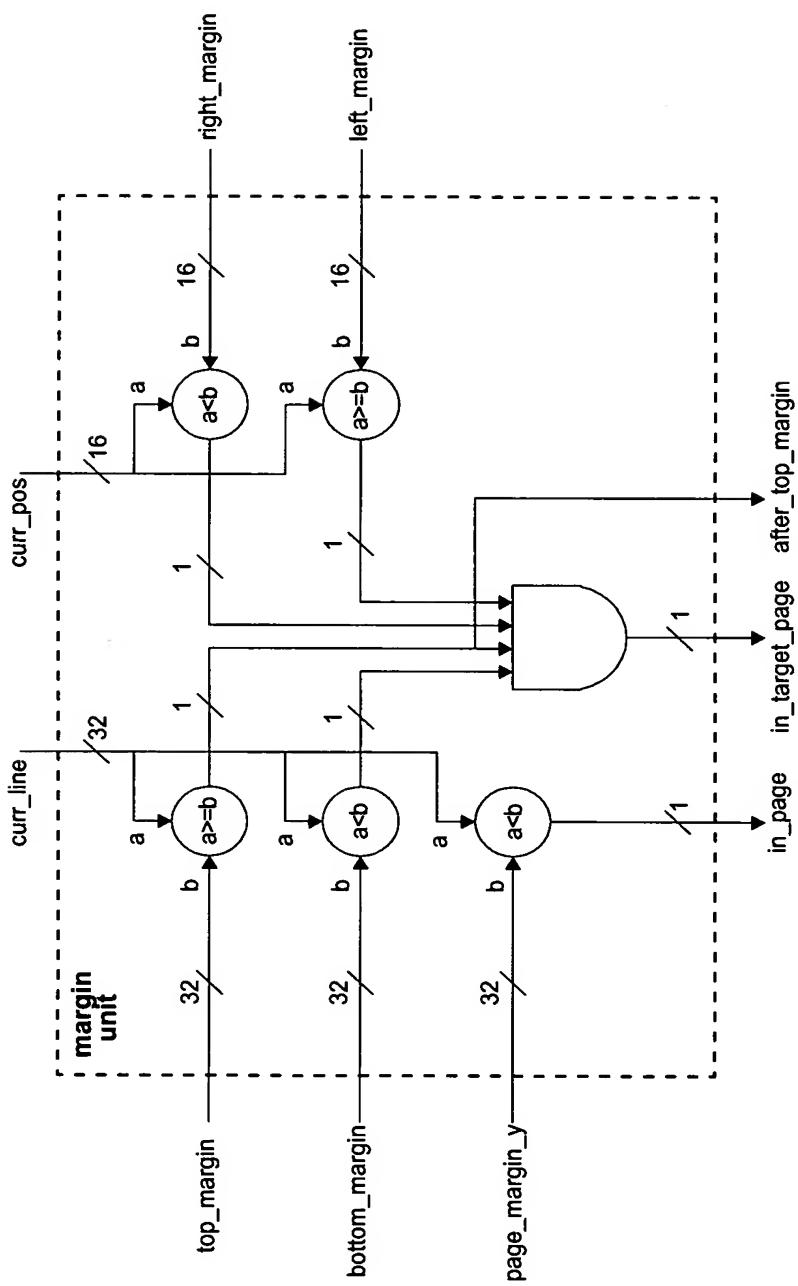
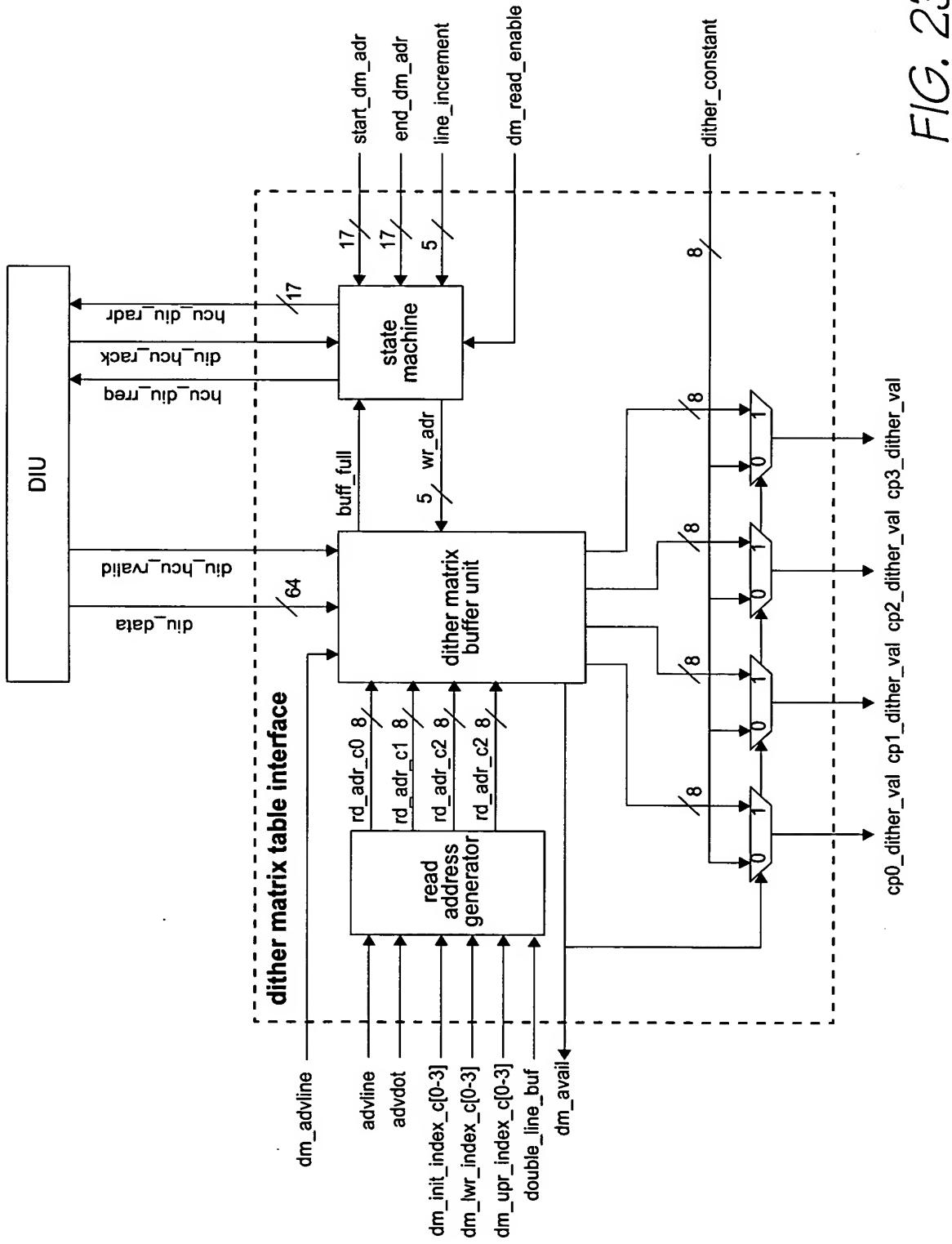


FIG. 235



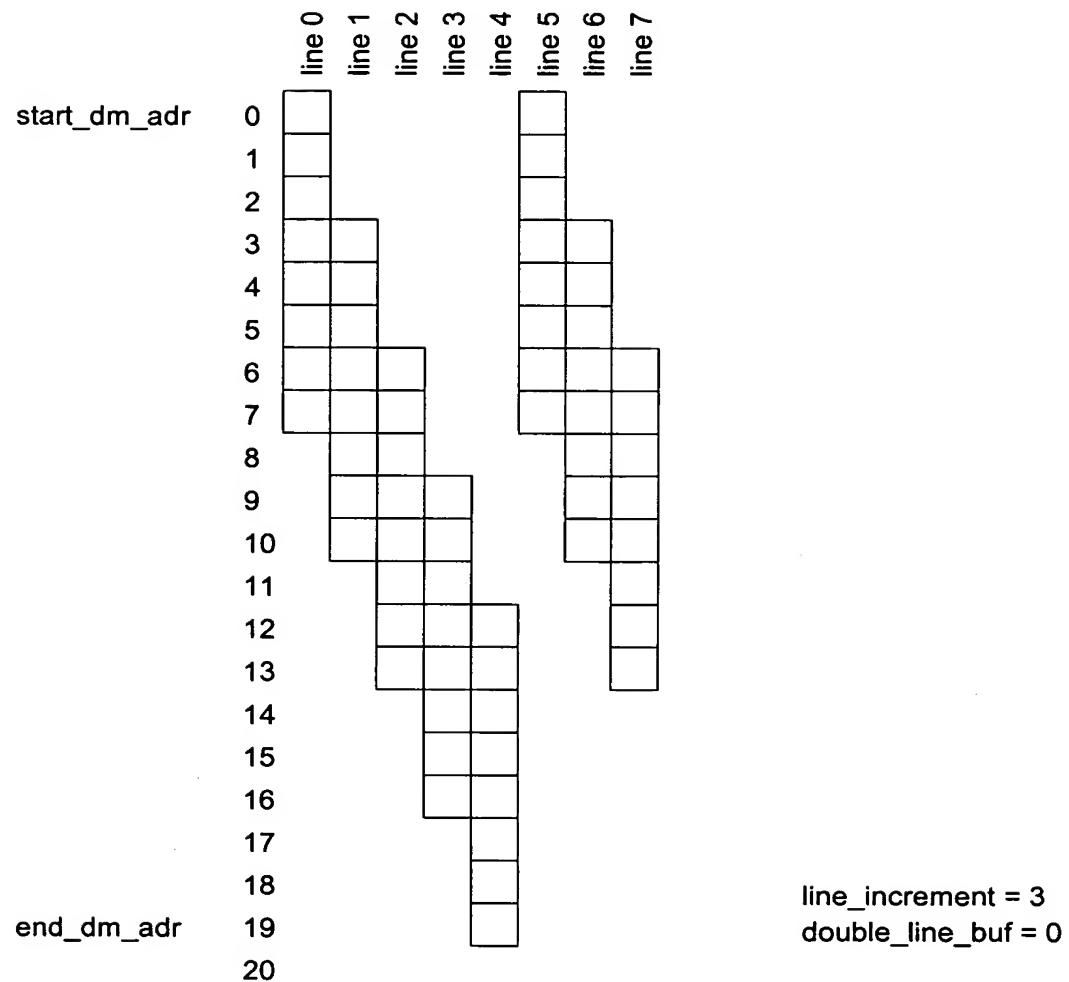


FIG. 237

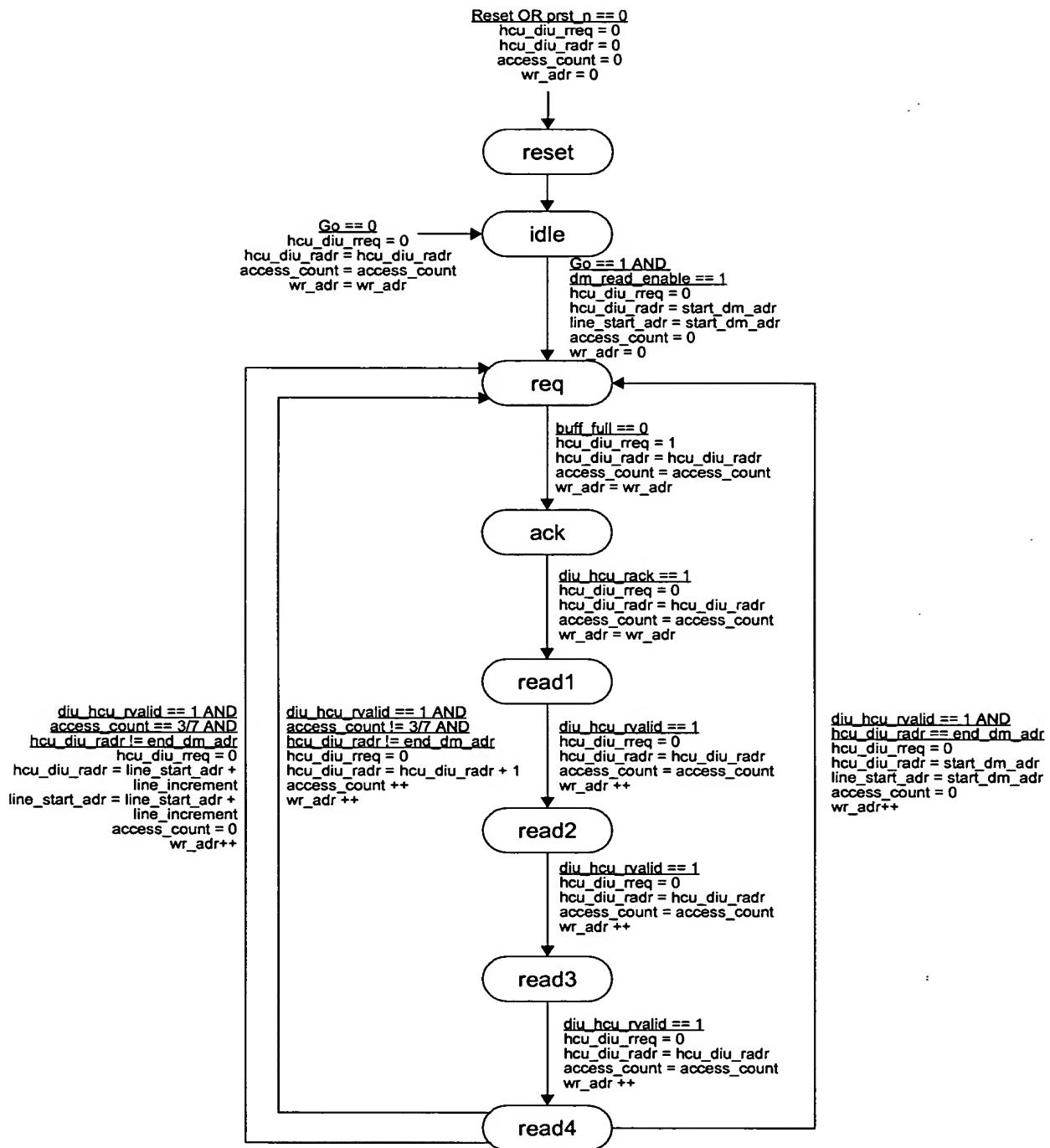
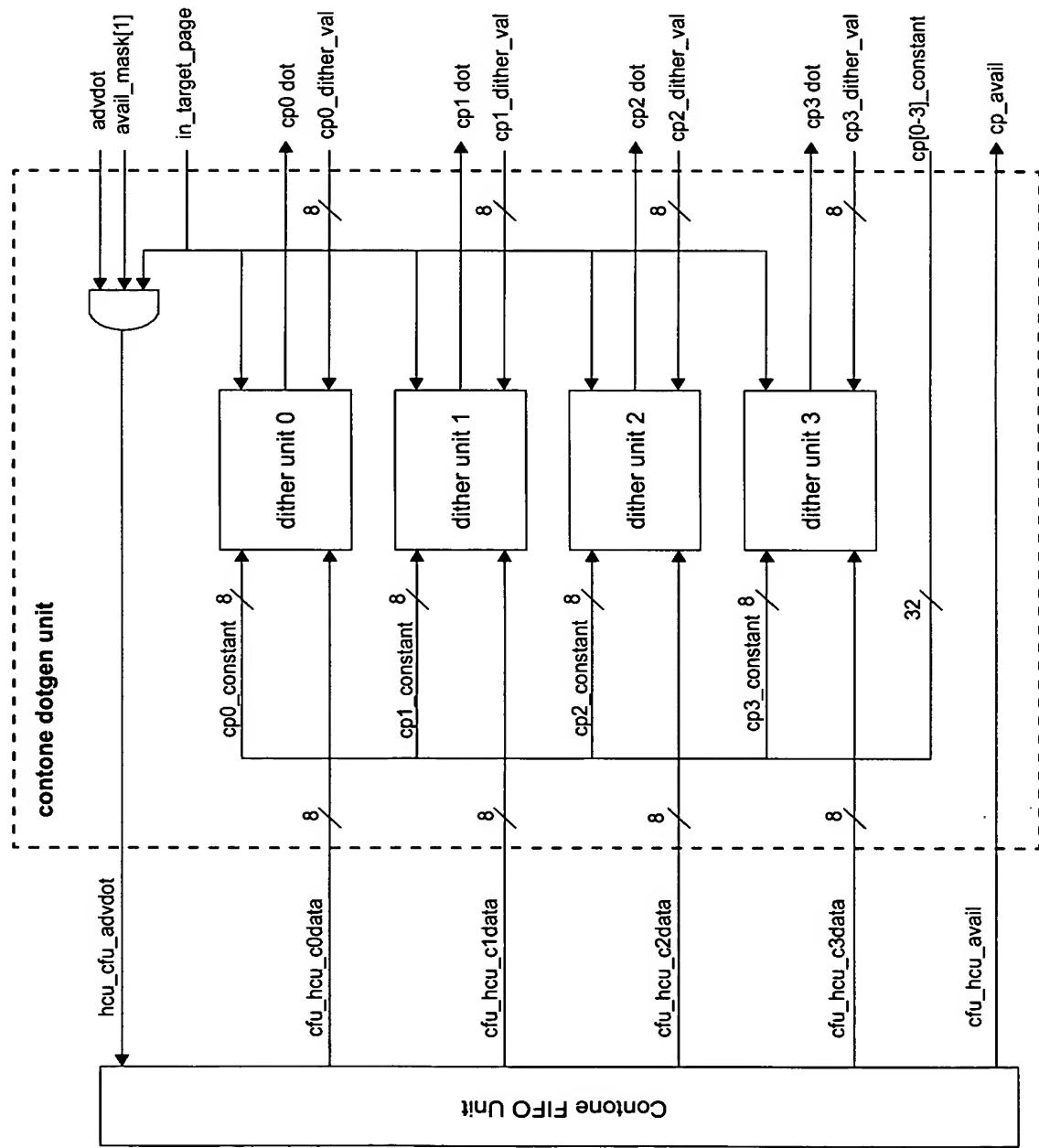


FIG. 238

FIG. 239



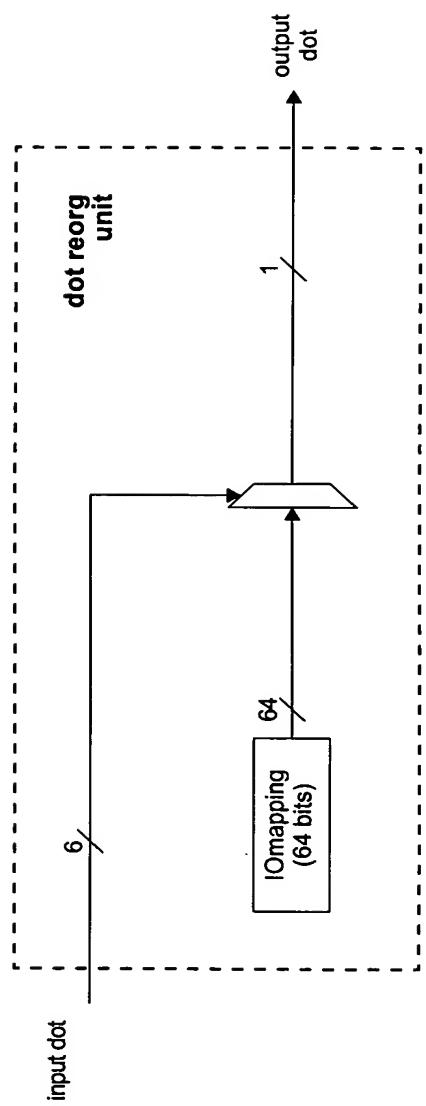


FIG. 240

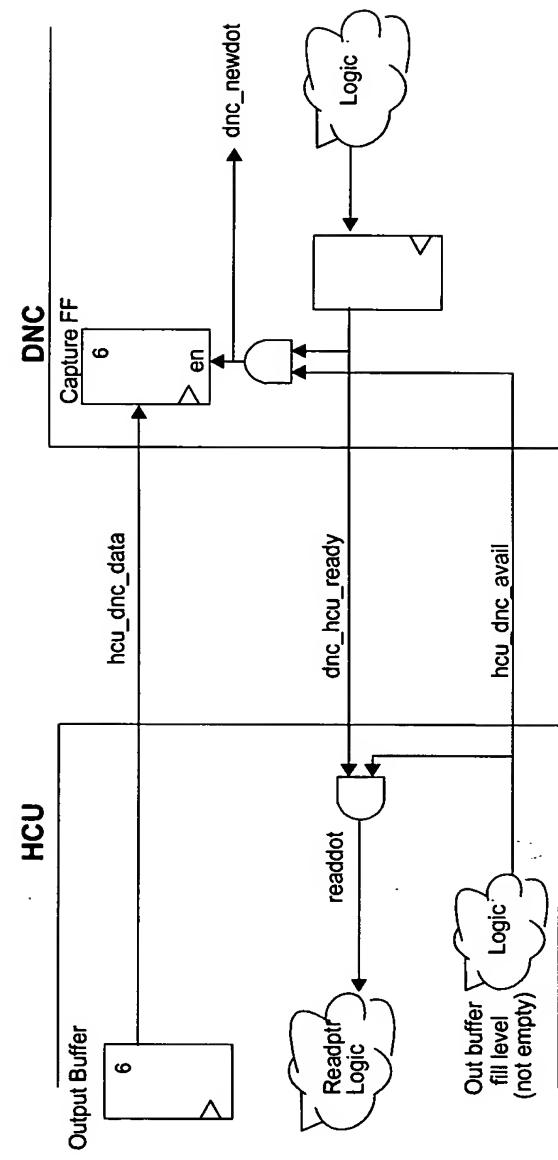
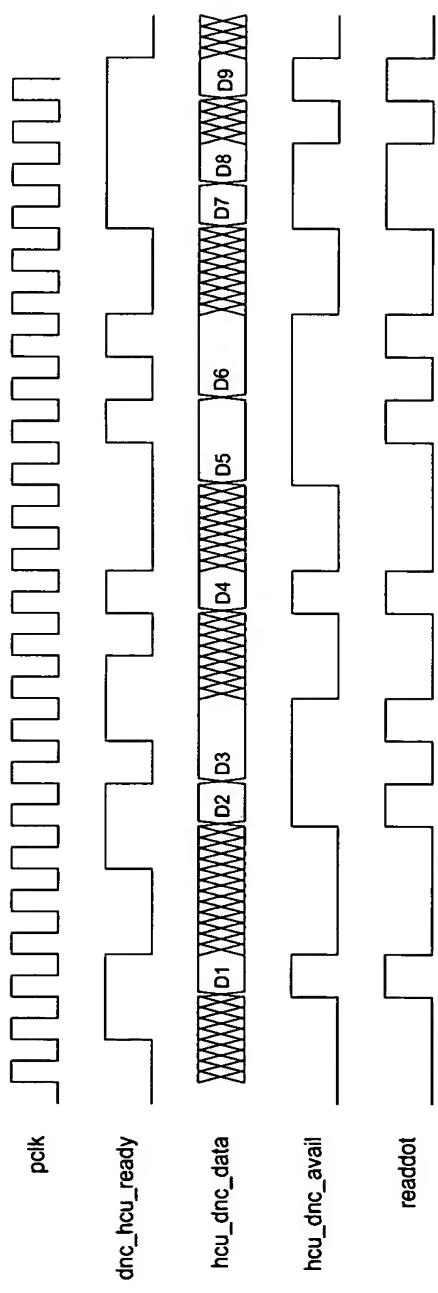


FIG. 241

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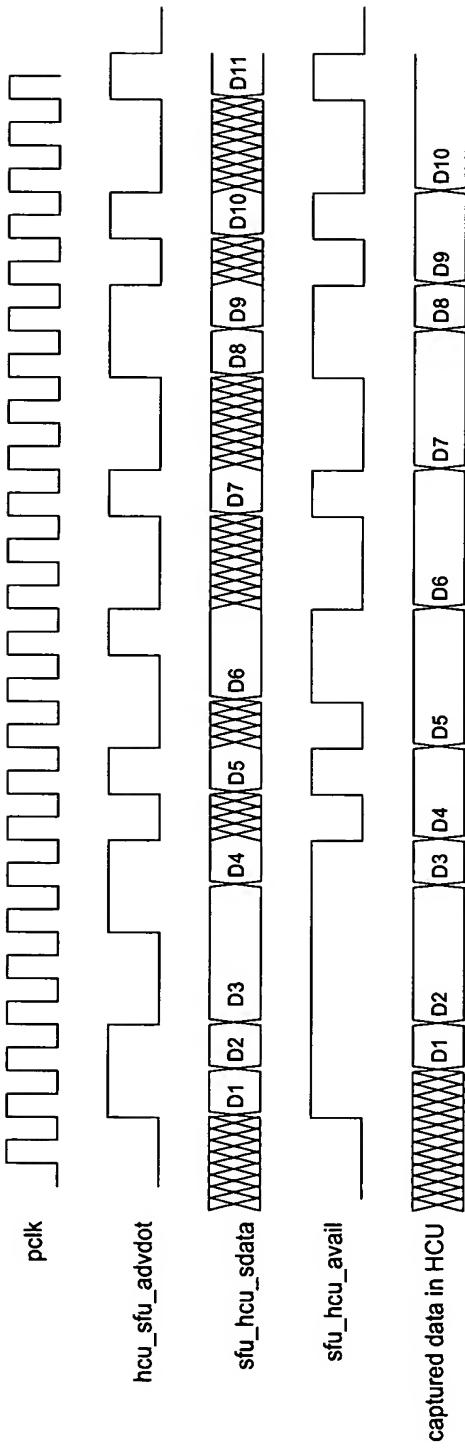


FIG. 242

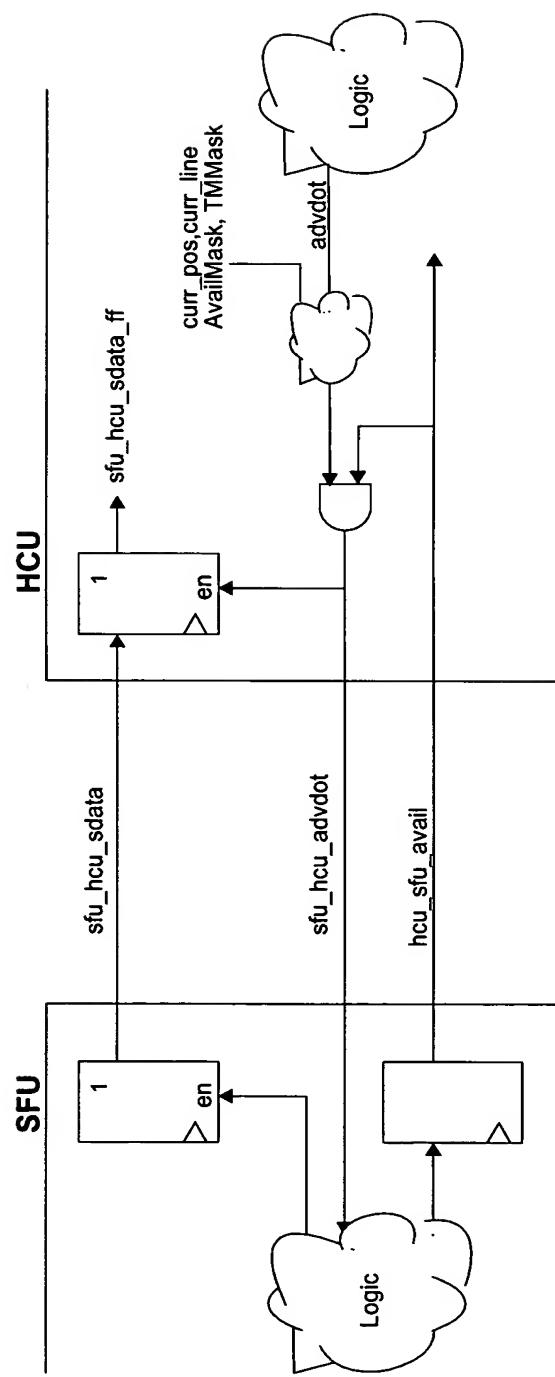


FIG. 243

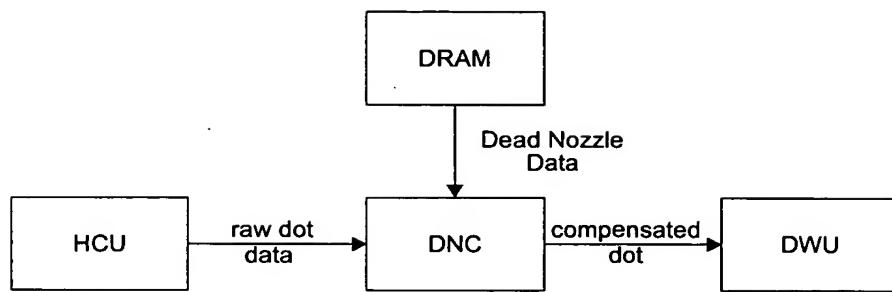


FIG. 244

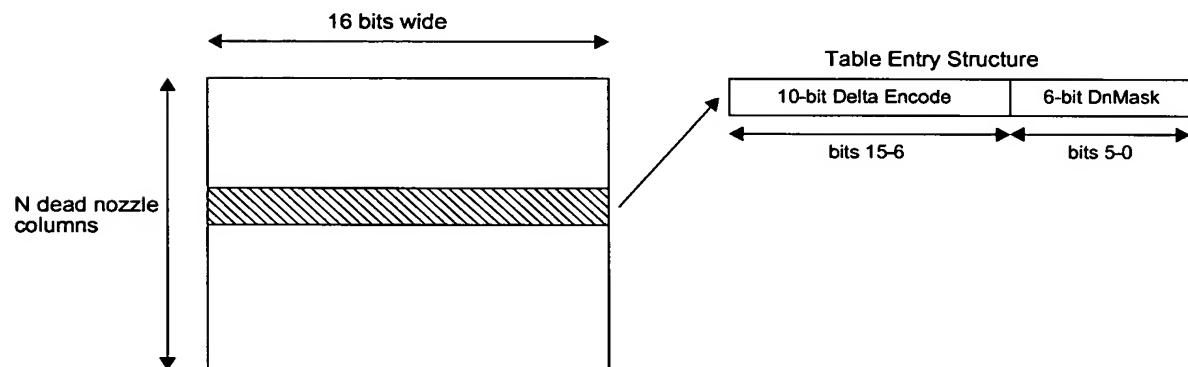


FIG. 245

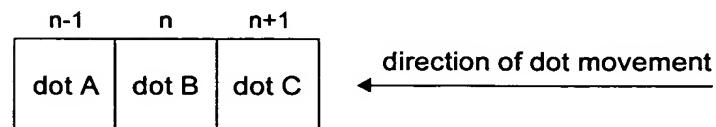


FIG. 246

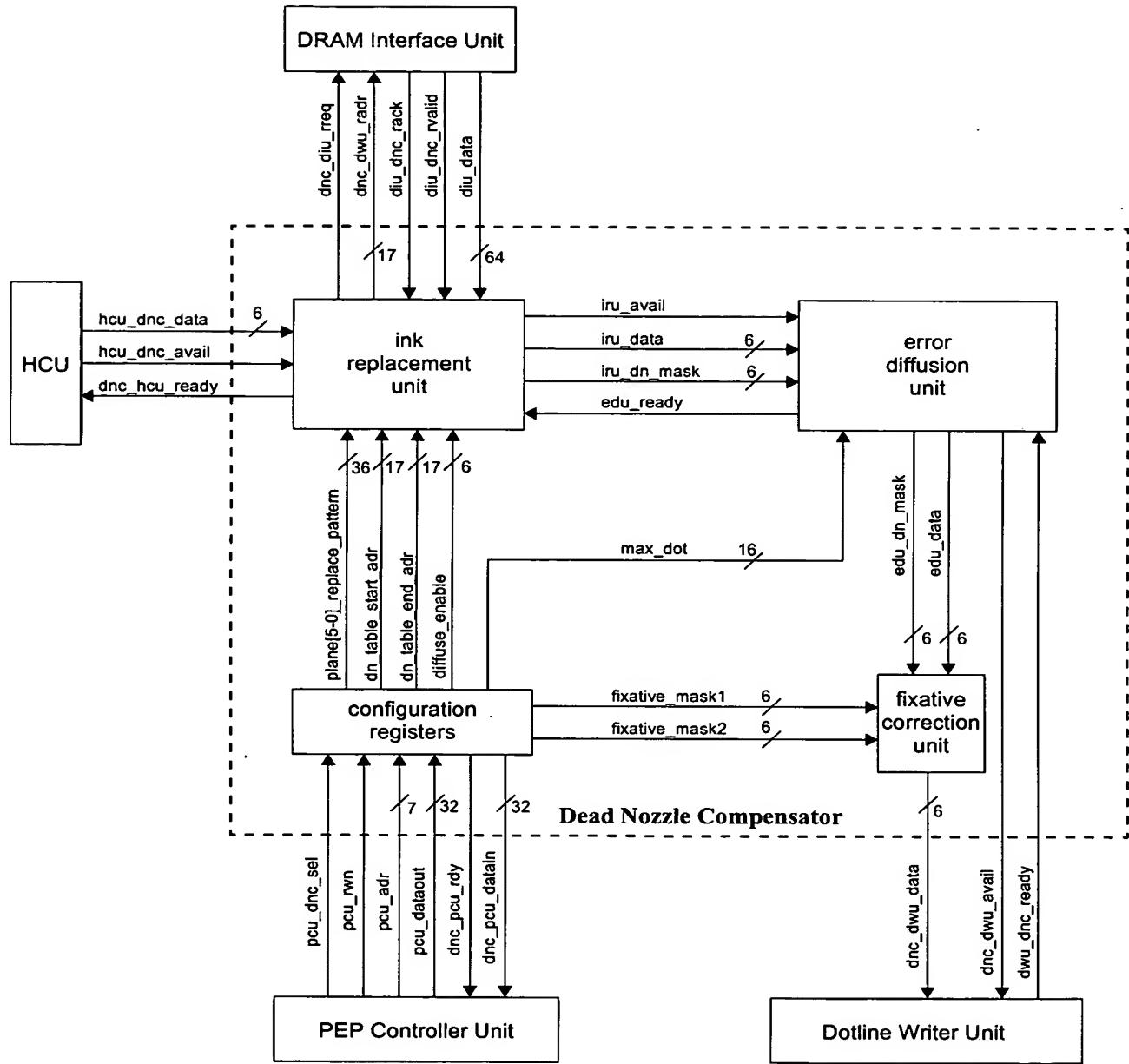


FIG. 247

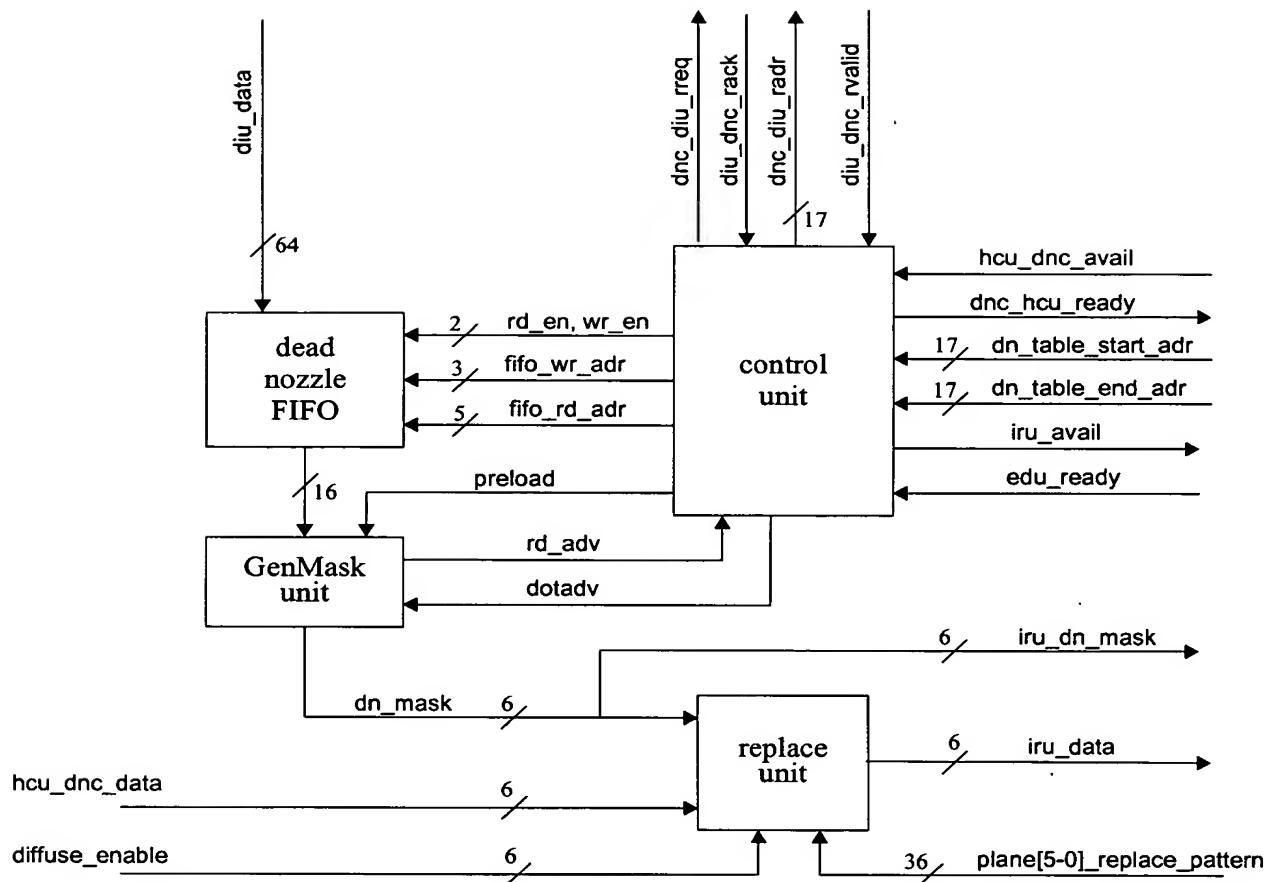


FIG. 248

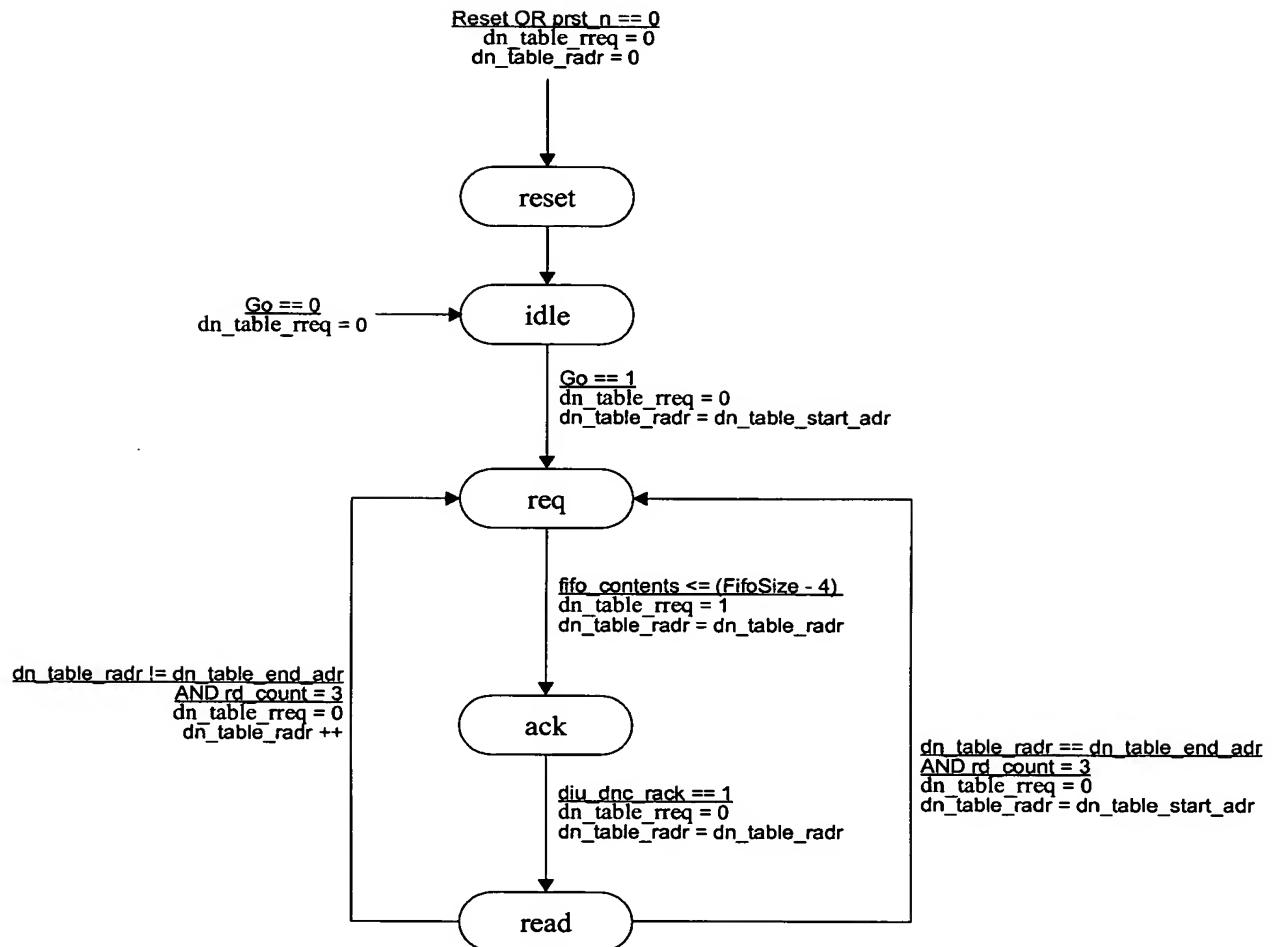


FIG. 249

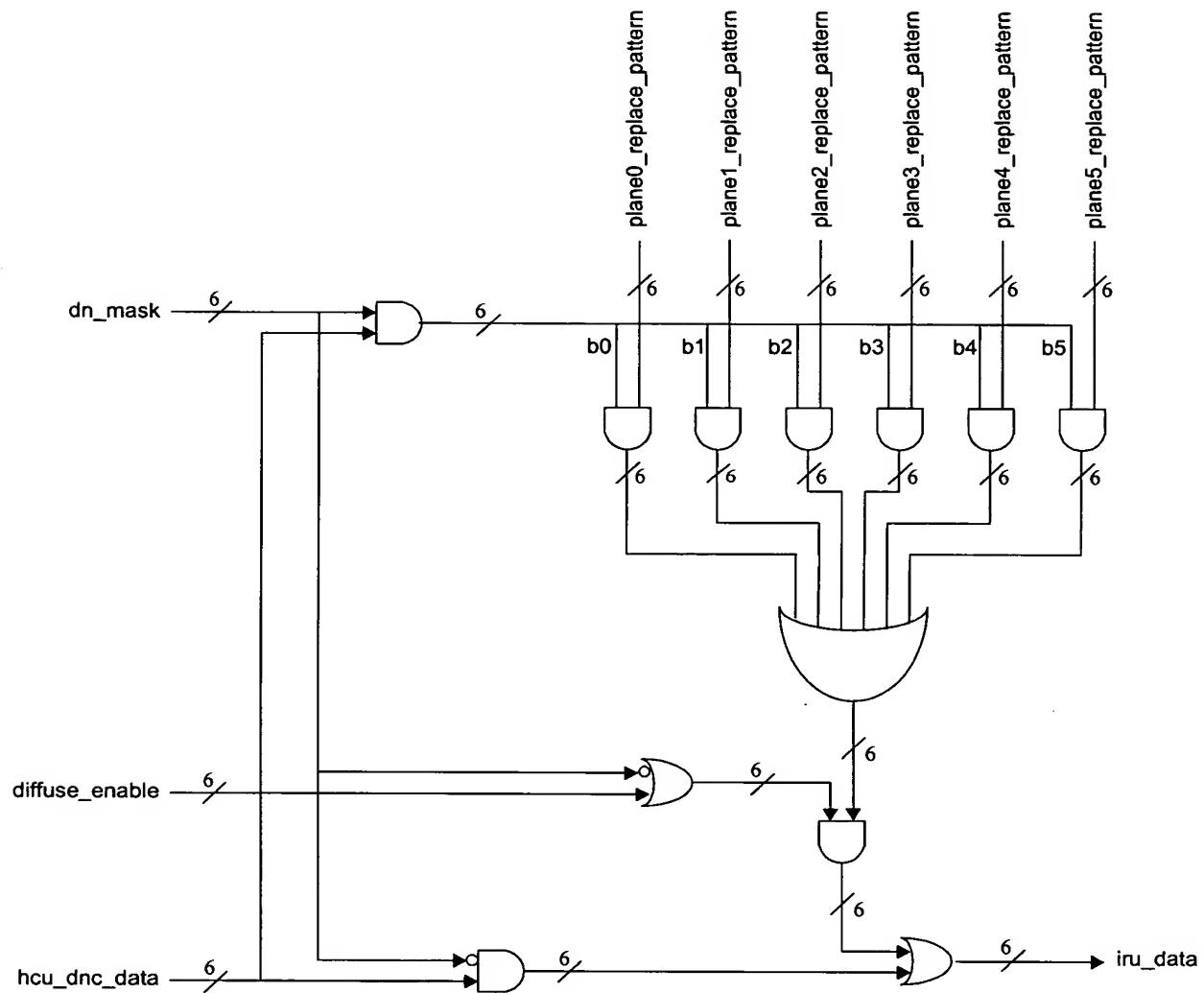


FIG. 250

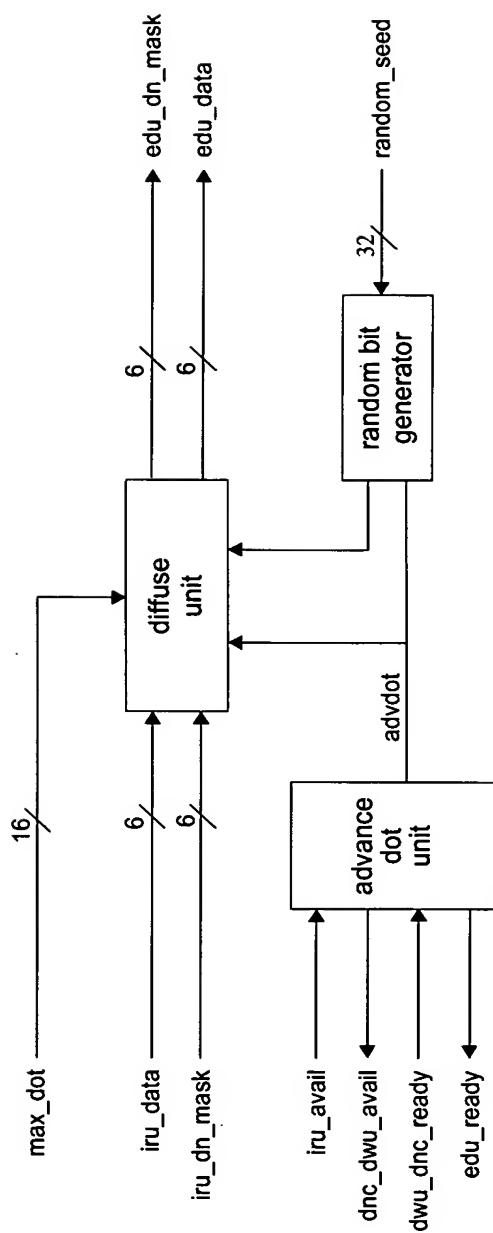


FIG. 251

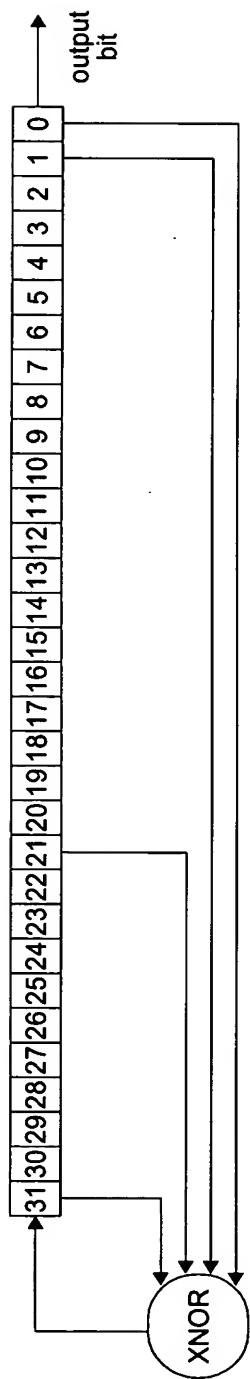
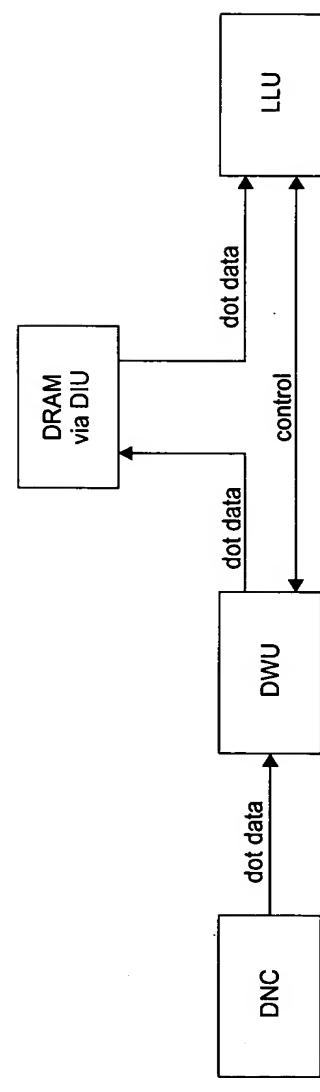


FIG. 252



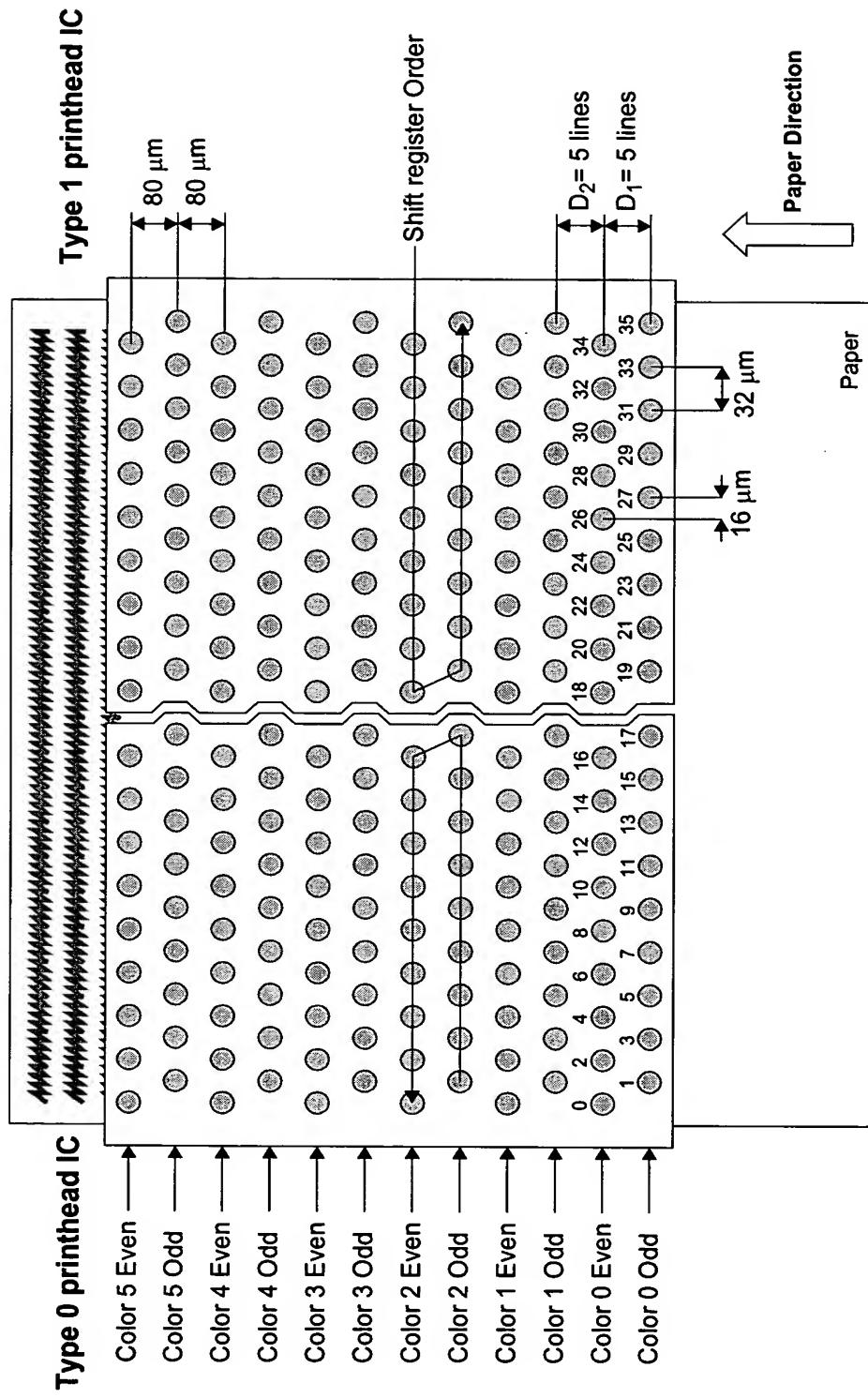


FIG. 254

Note: Paper passes under printhead

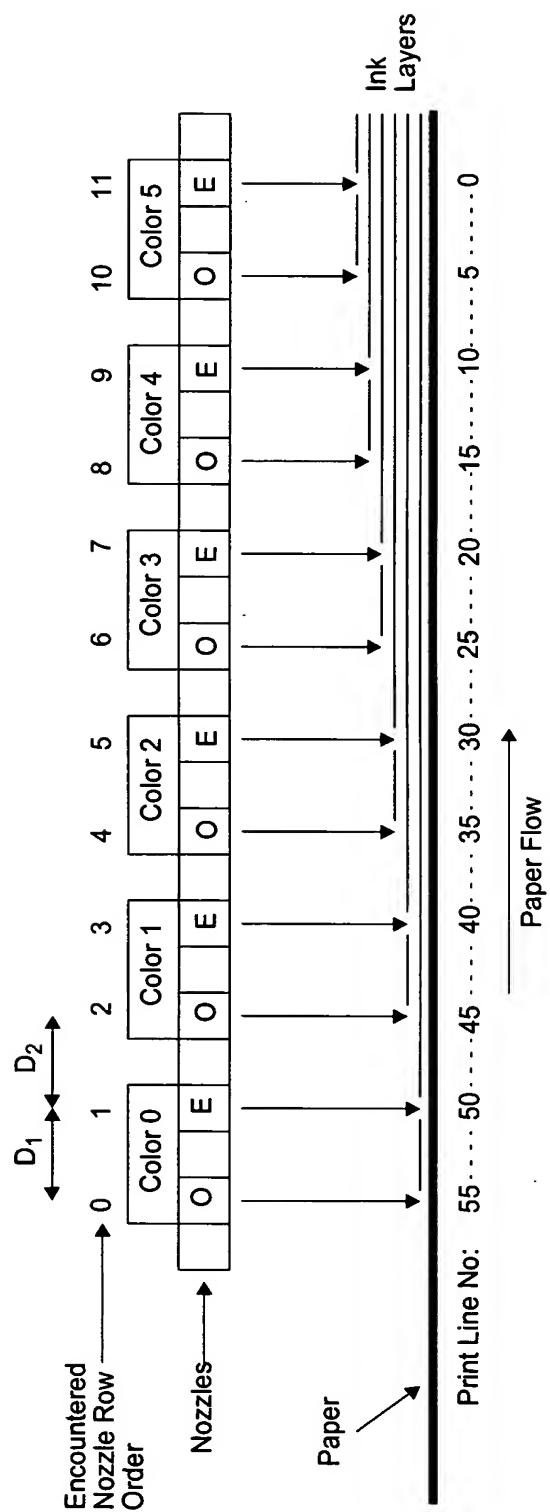
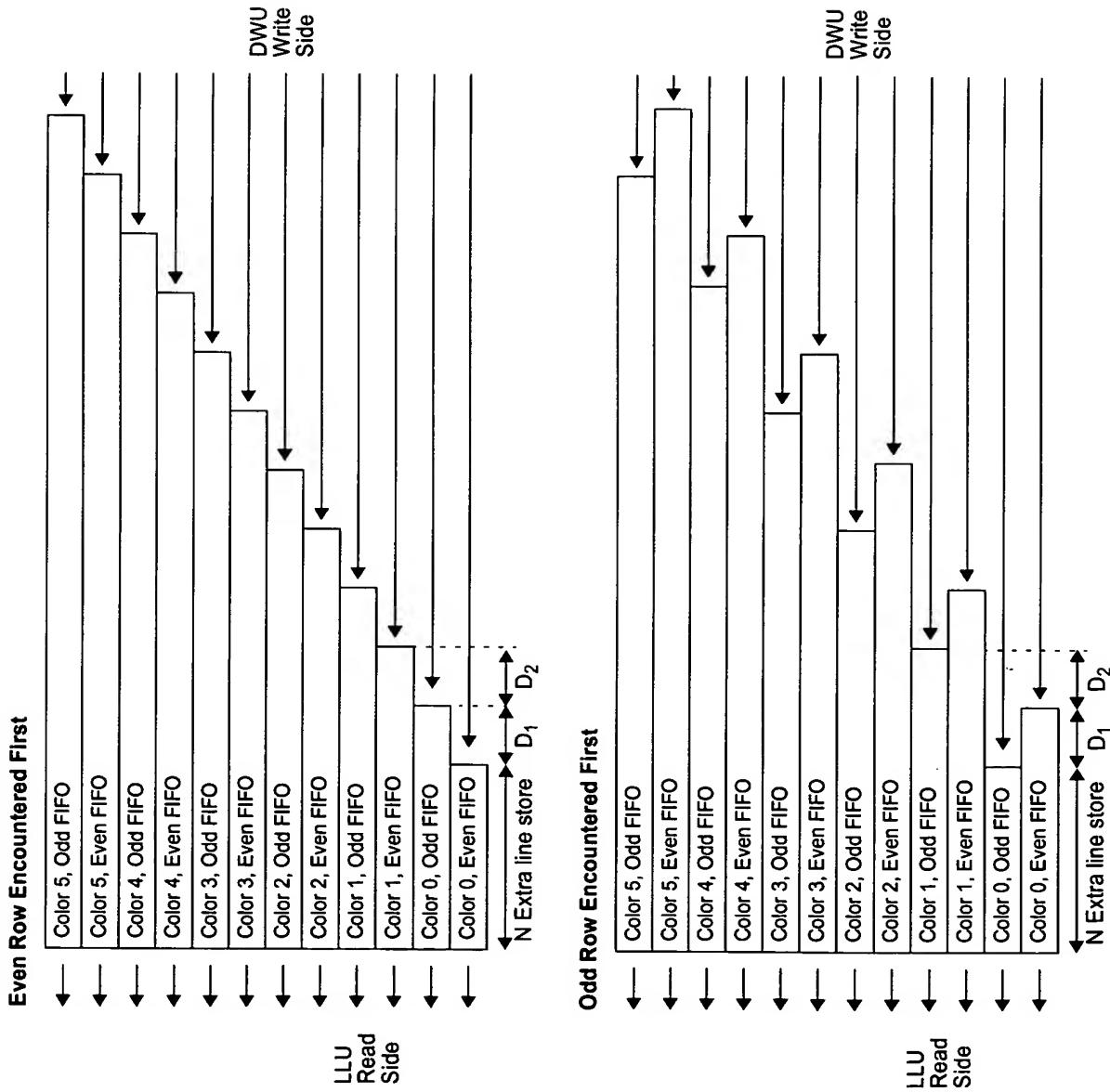


FIG. 255

FIG. 256



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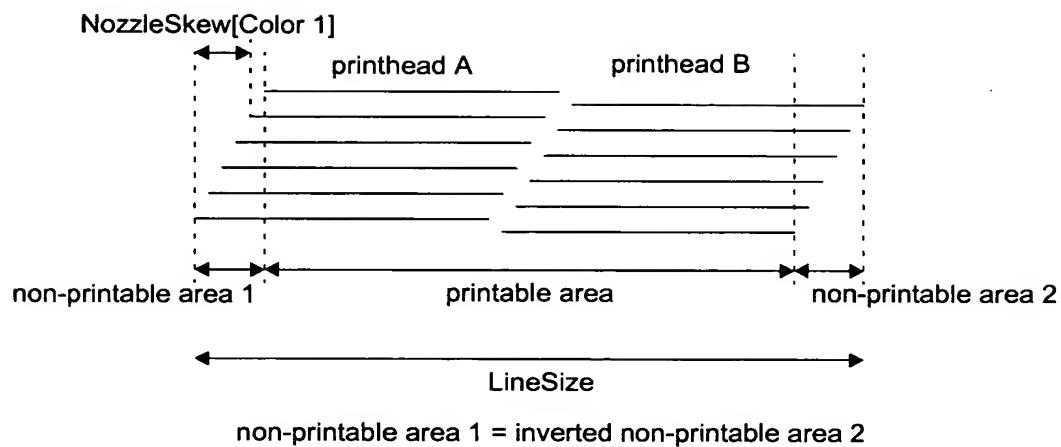


FIG. 257

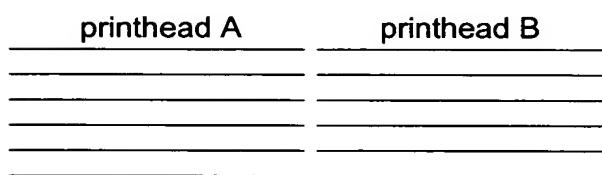


FIG. 258

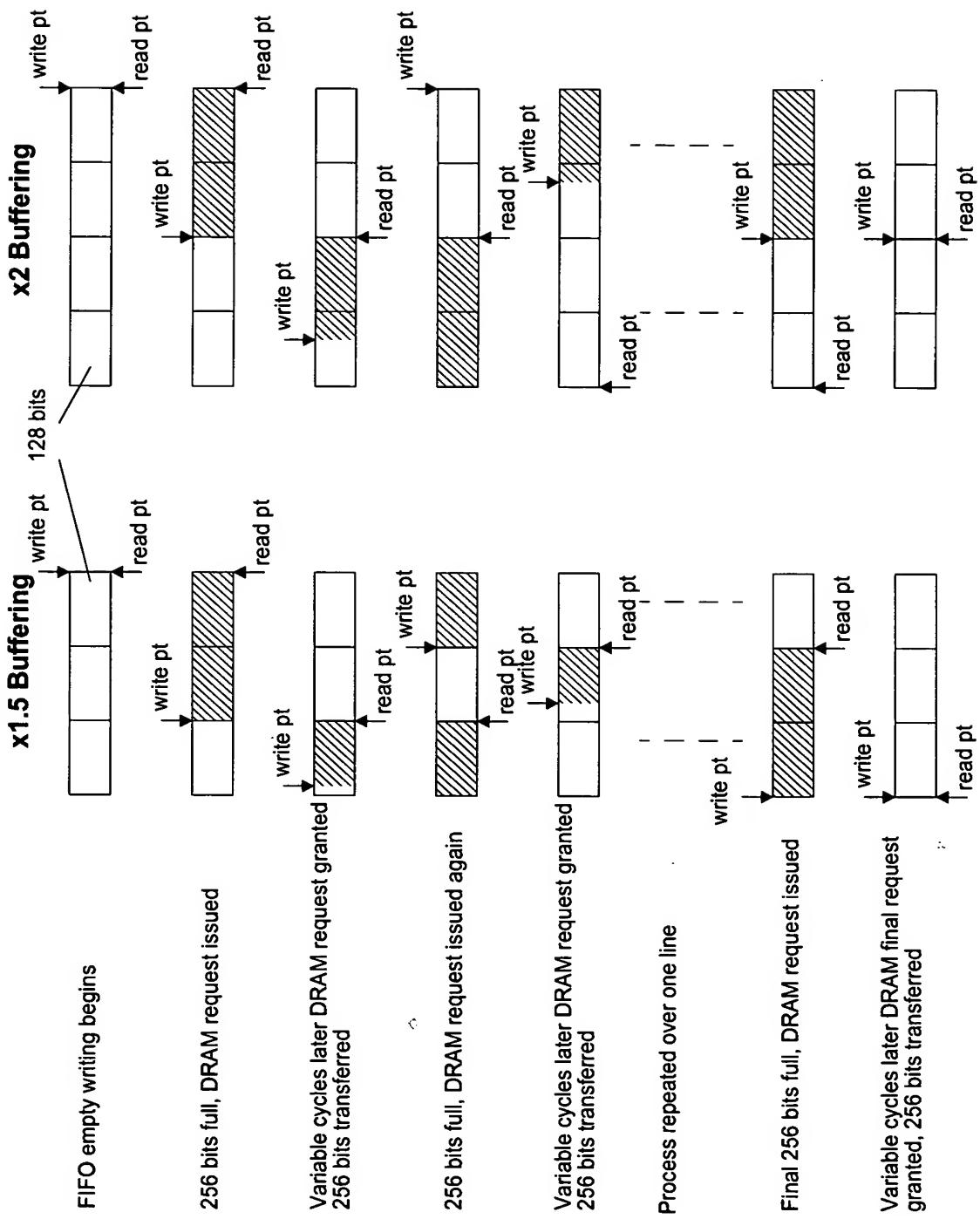


FIG. 259

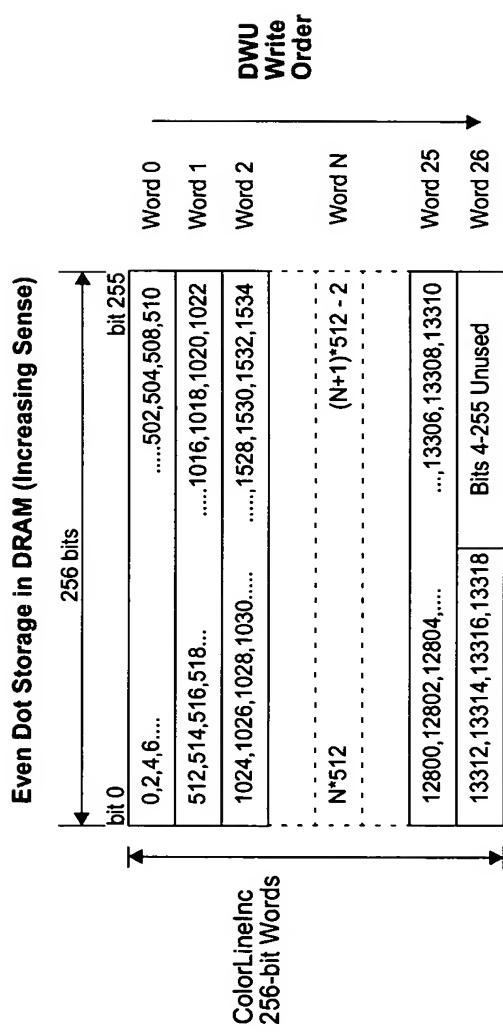


FIG. 260

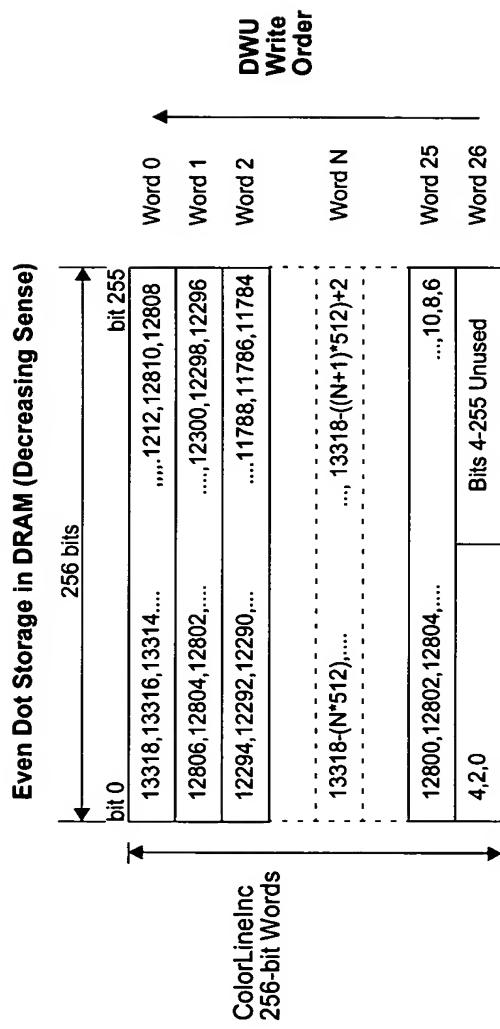


FIG. 261

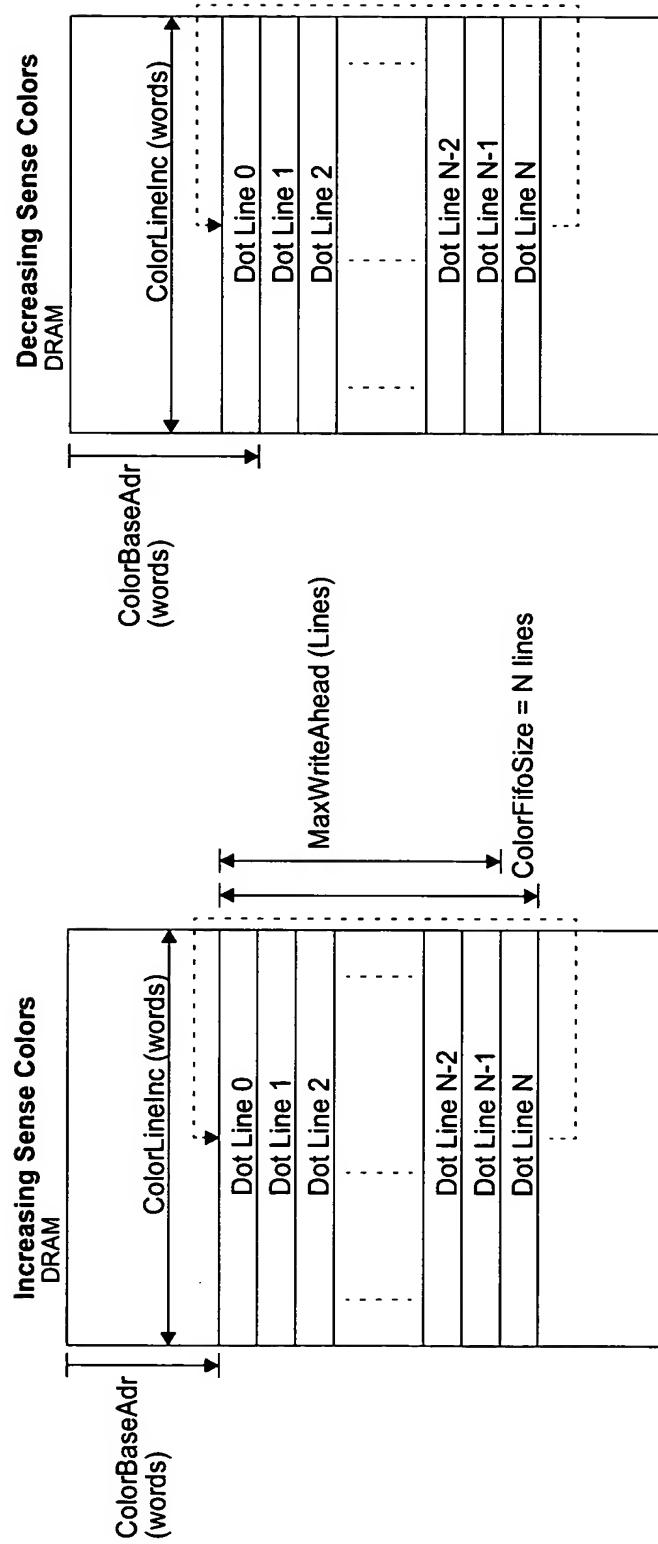


FIG. 262

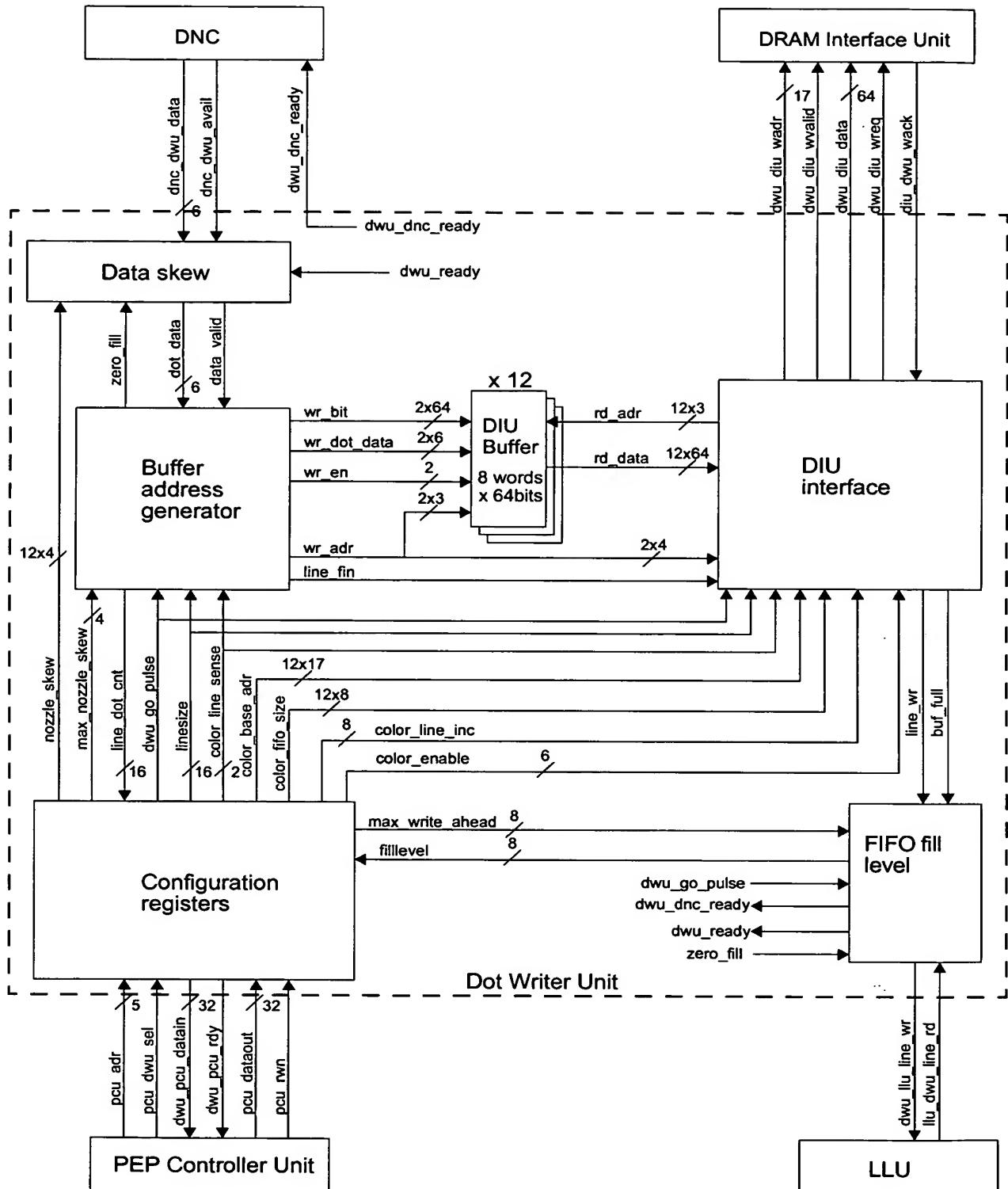


FIG. 263

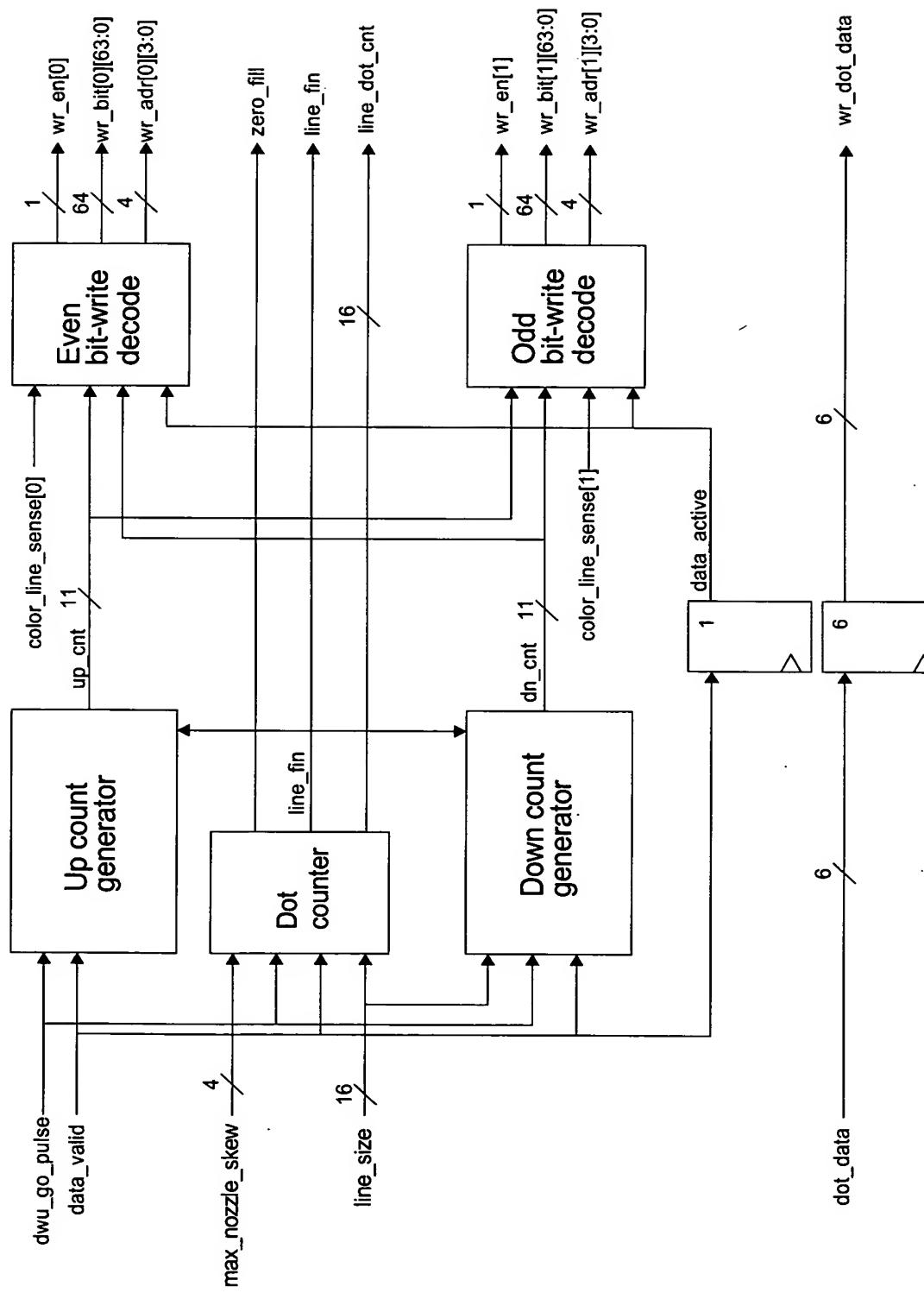
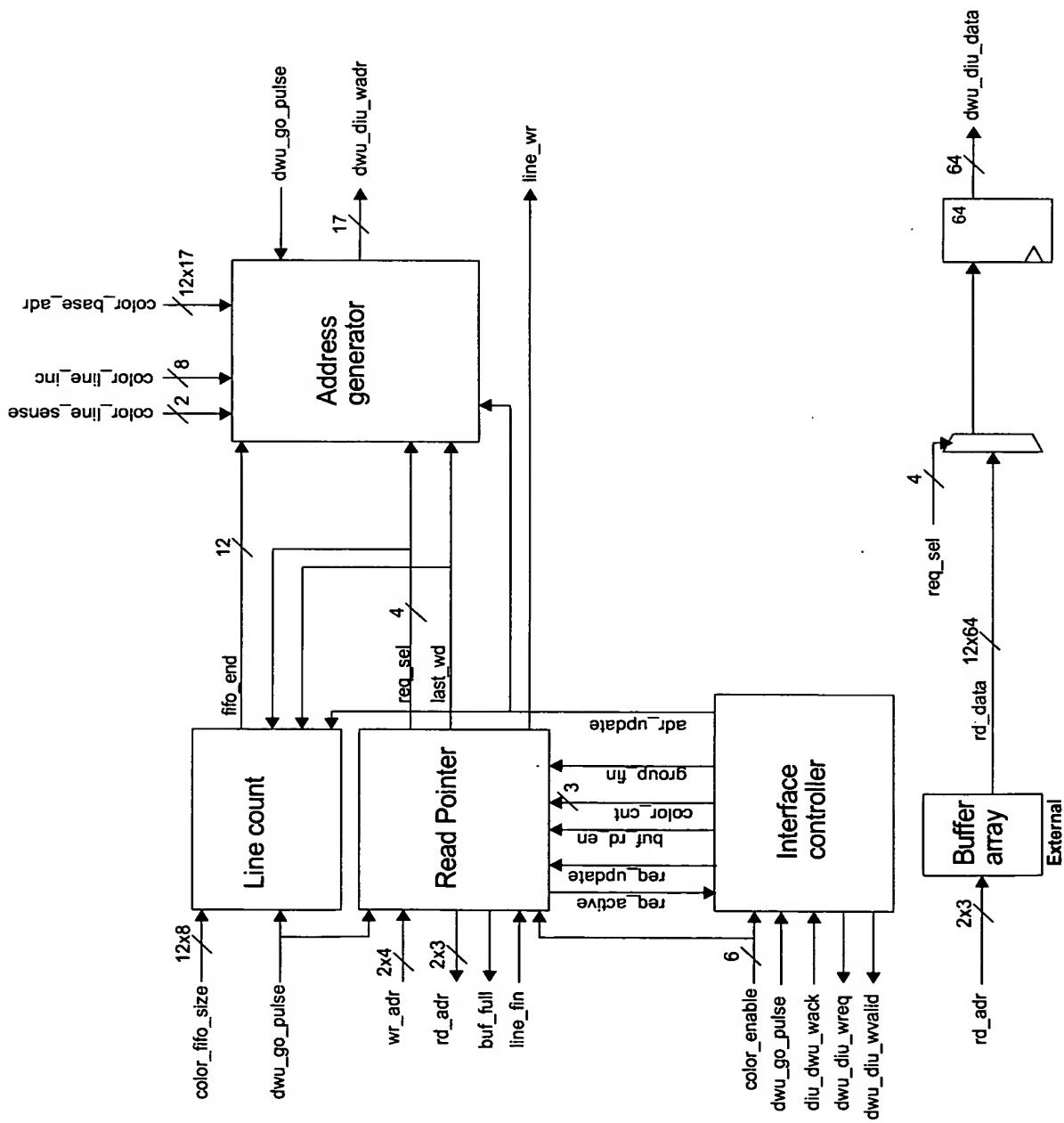


FIG. 264



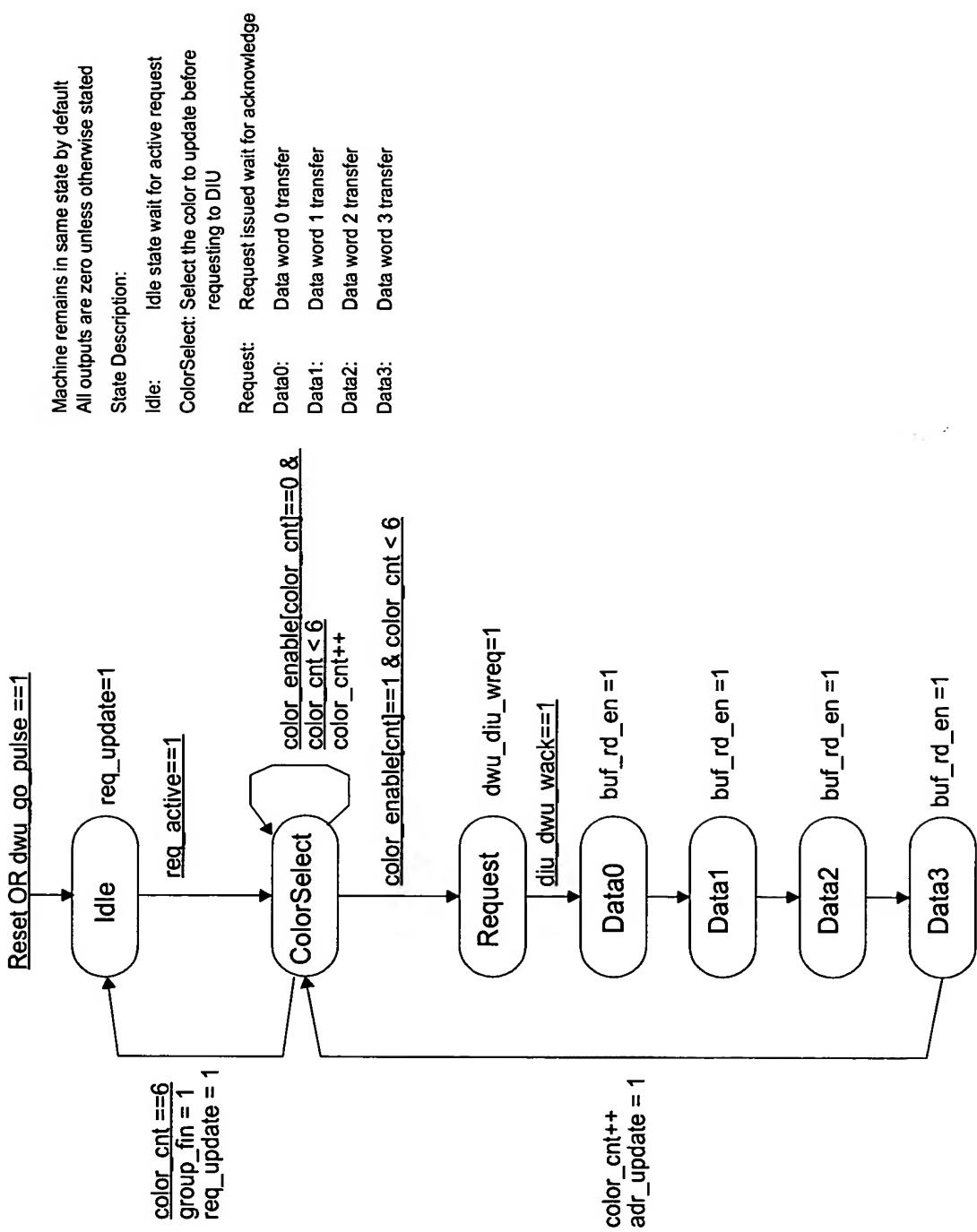


FIG. 266

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FIG. 267

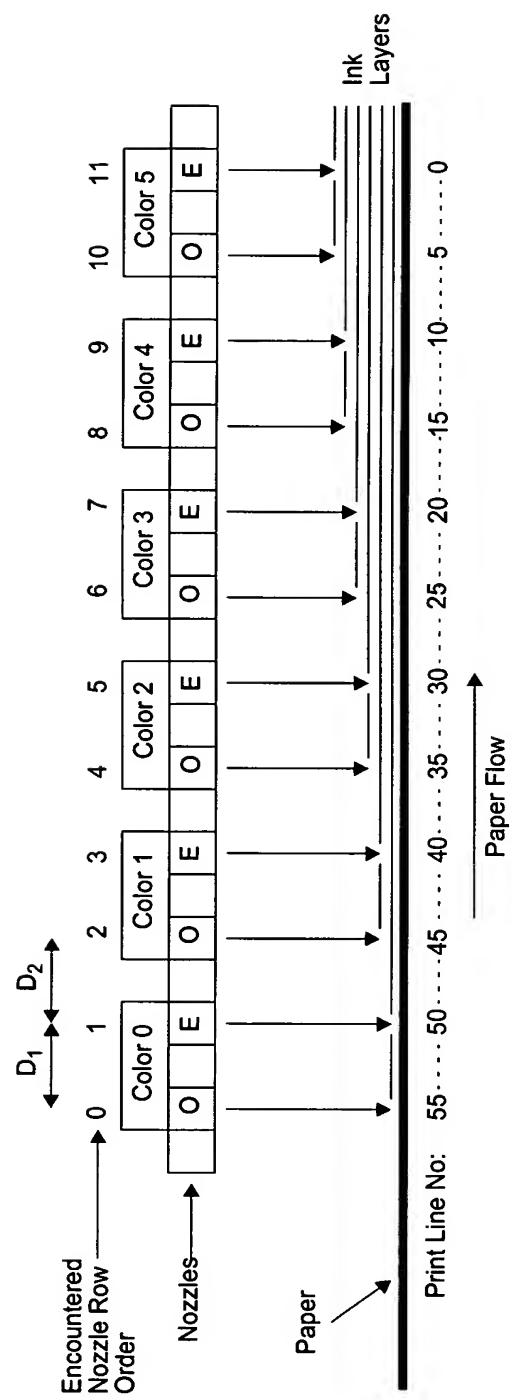
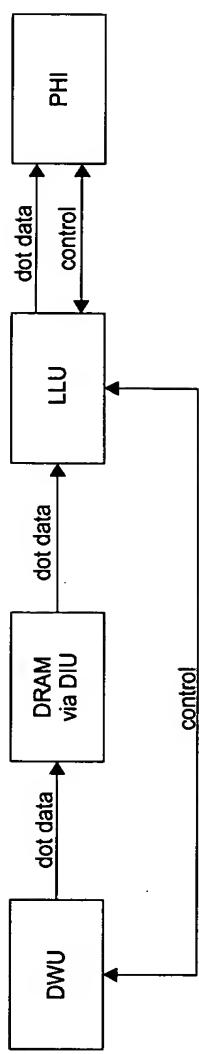


FIG. 268

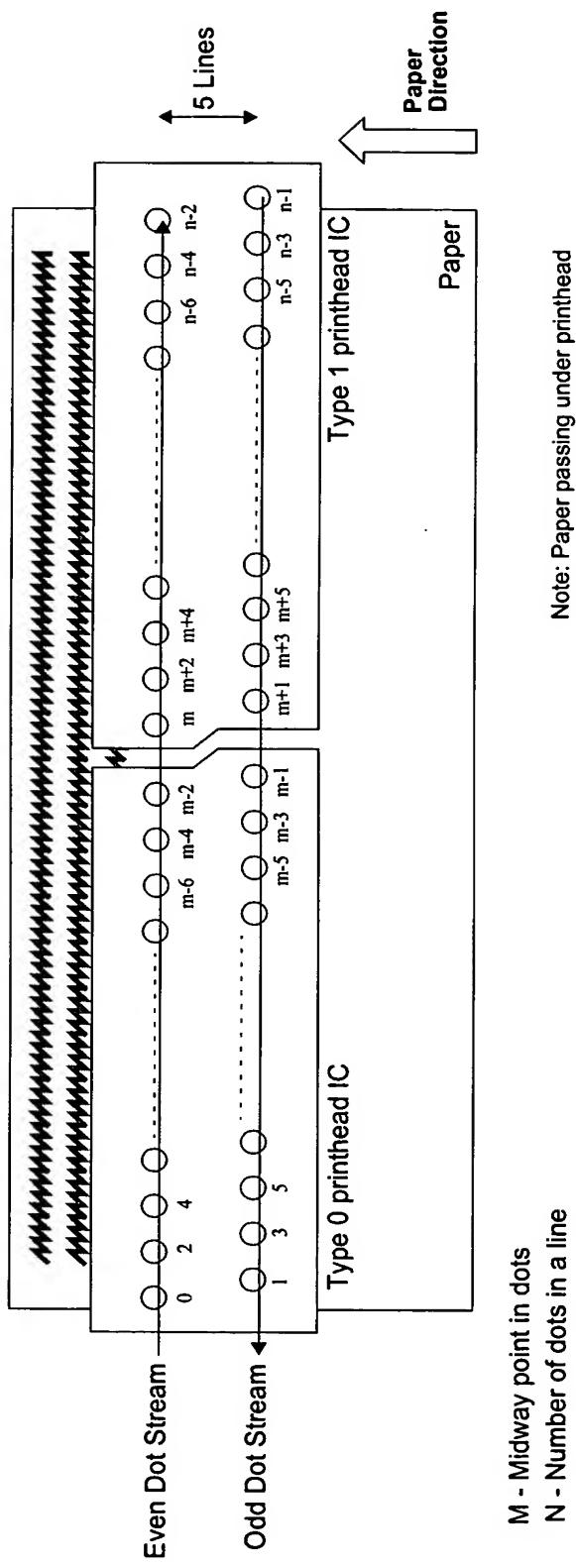


FIG. 269

M - Midway point in dots

N - Number of dots in a line

Generate dot order (to the PHI)

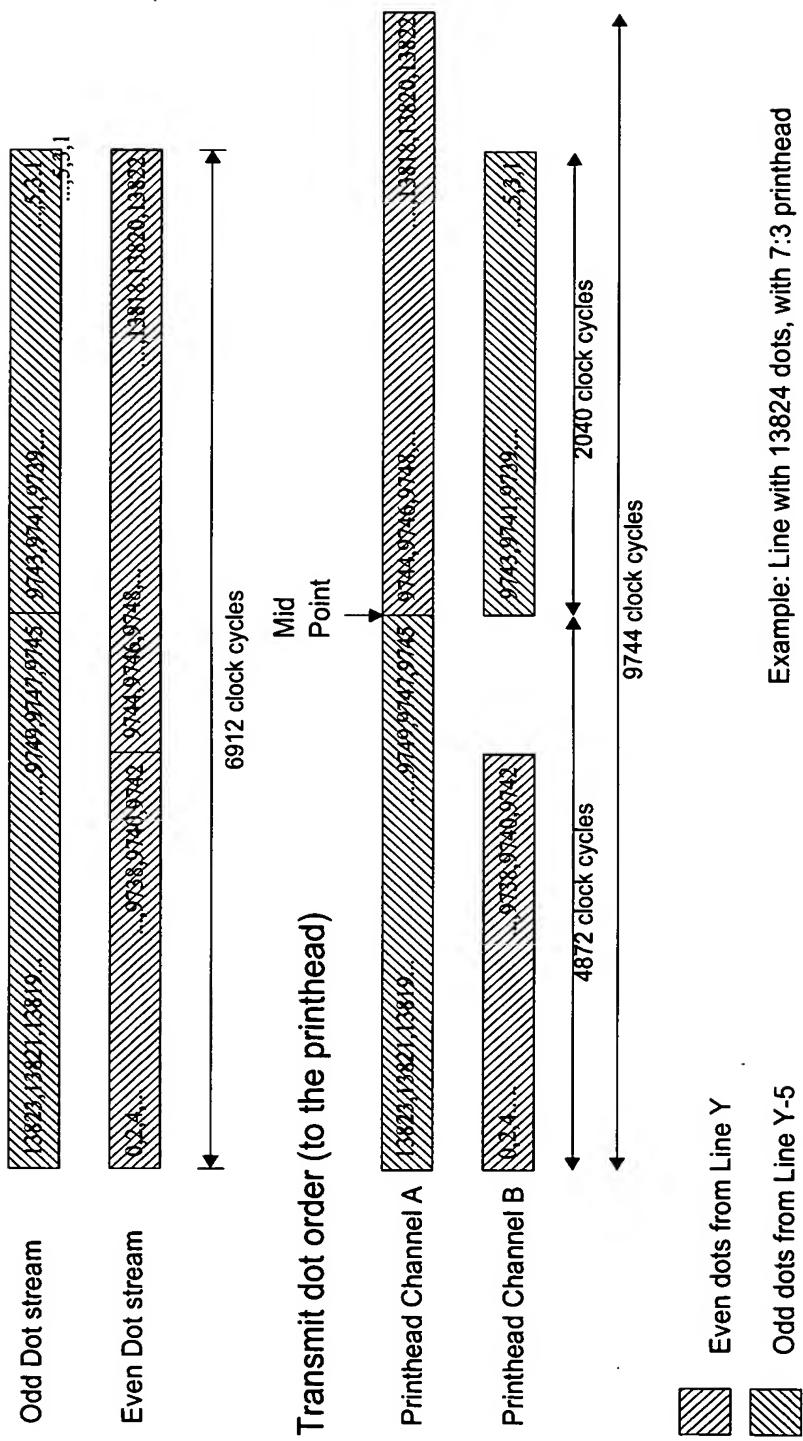


FIG. 270

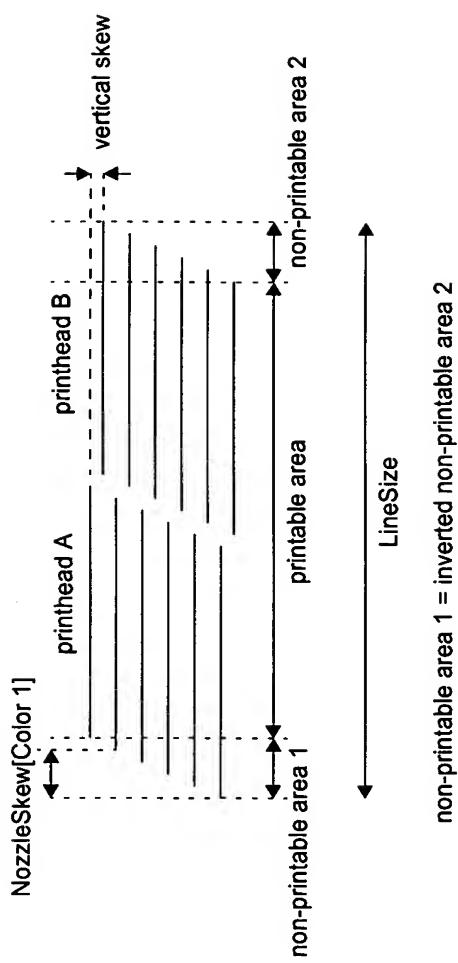


FIG. 271

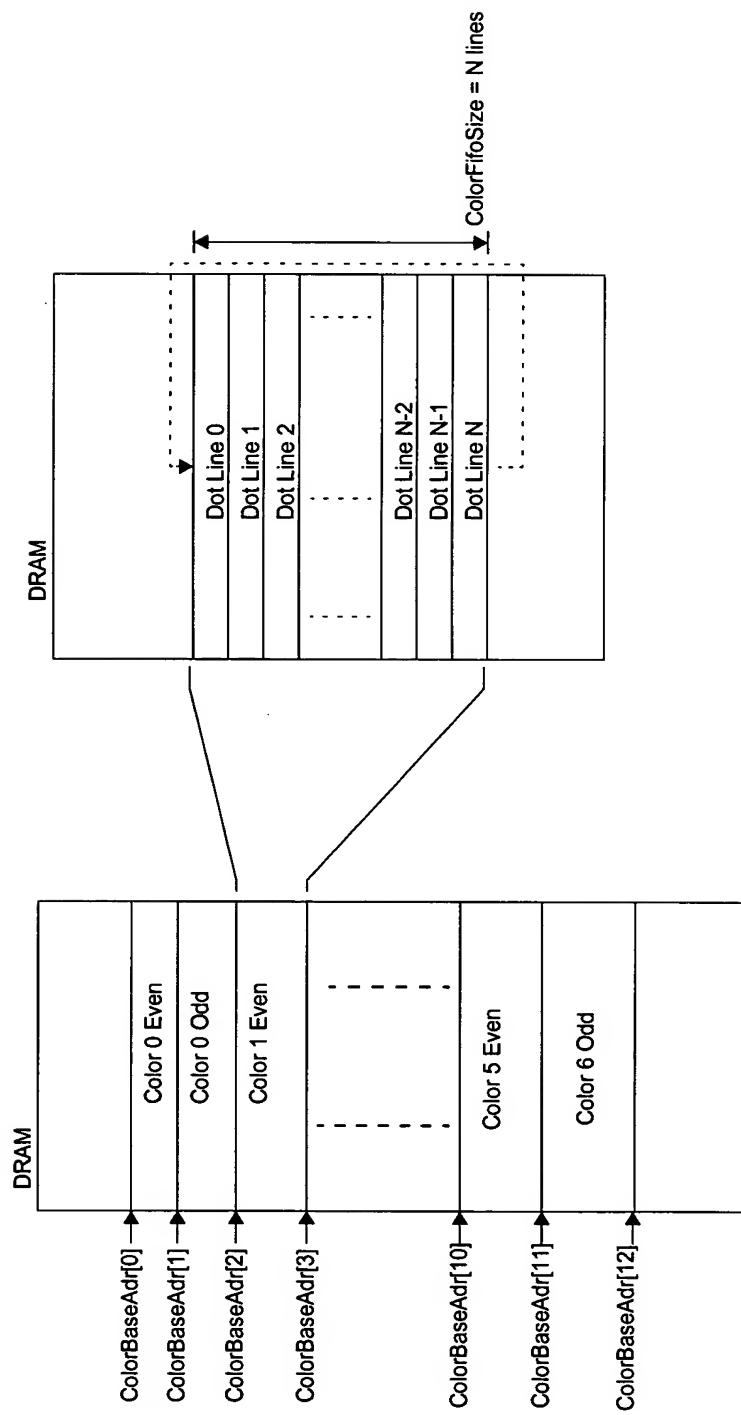
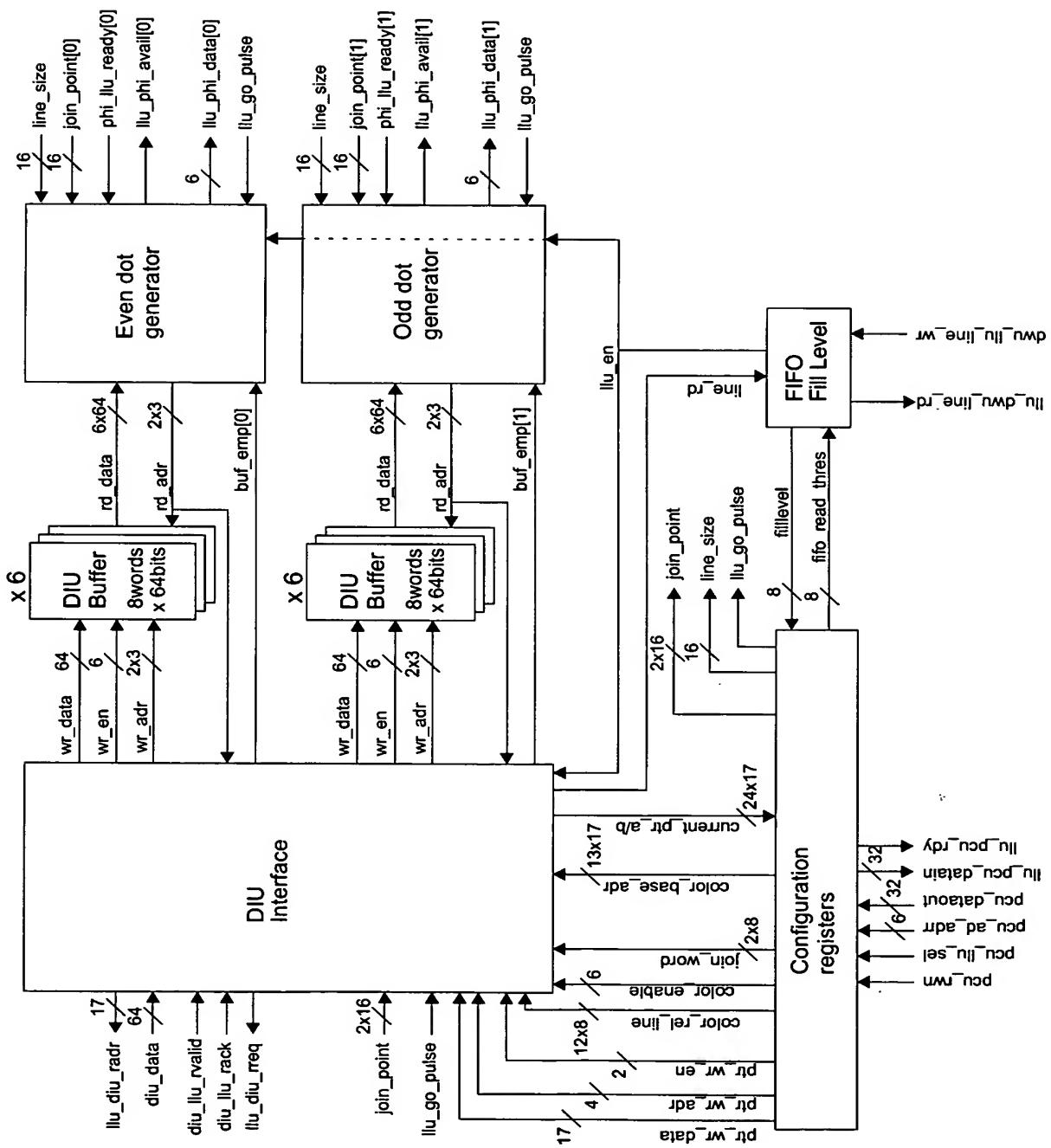


FIG. 272



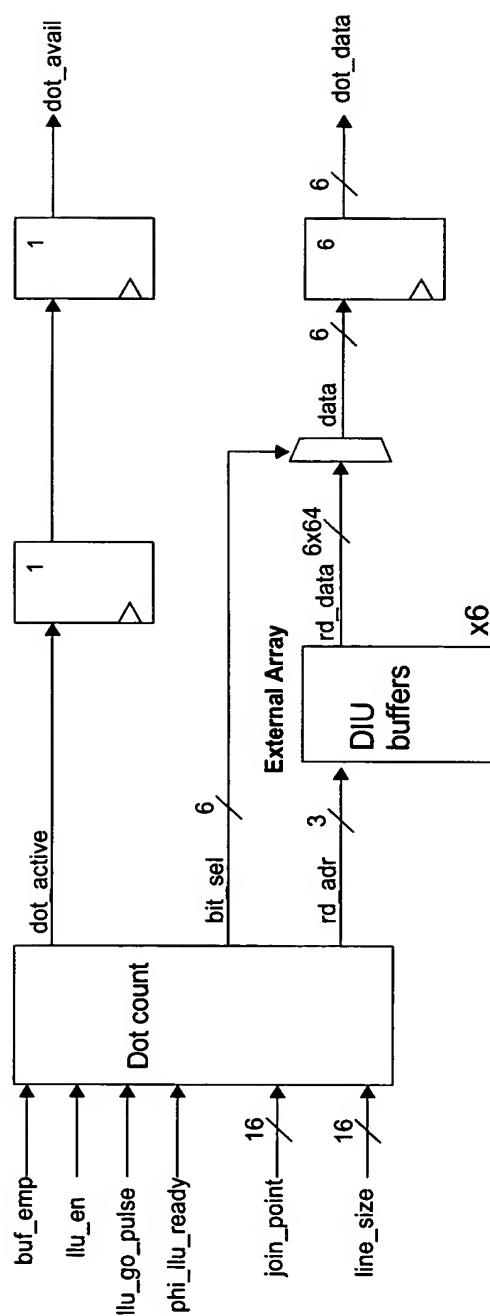


FIG. 274

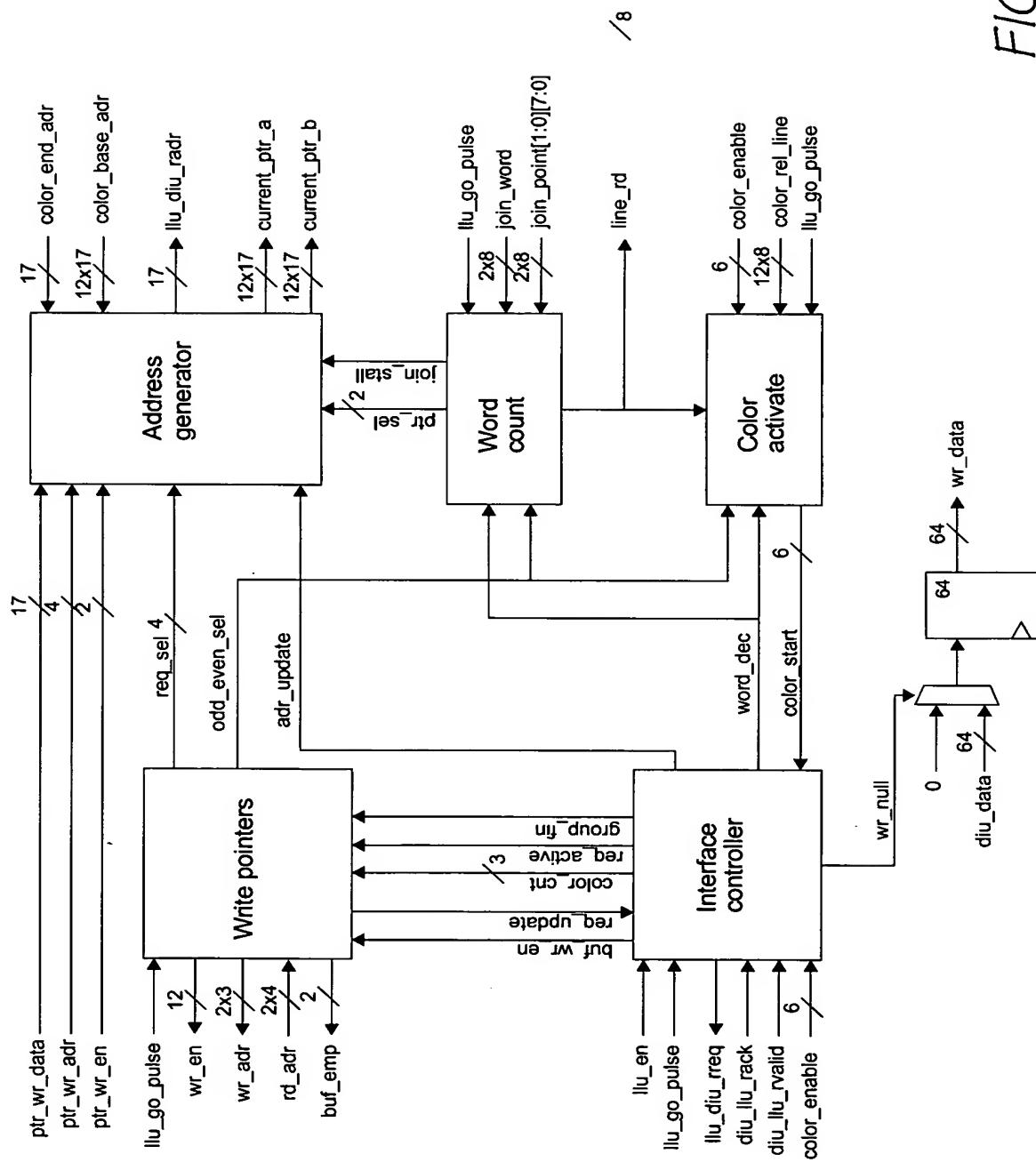


FIG. 275

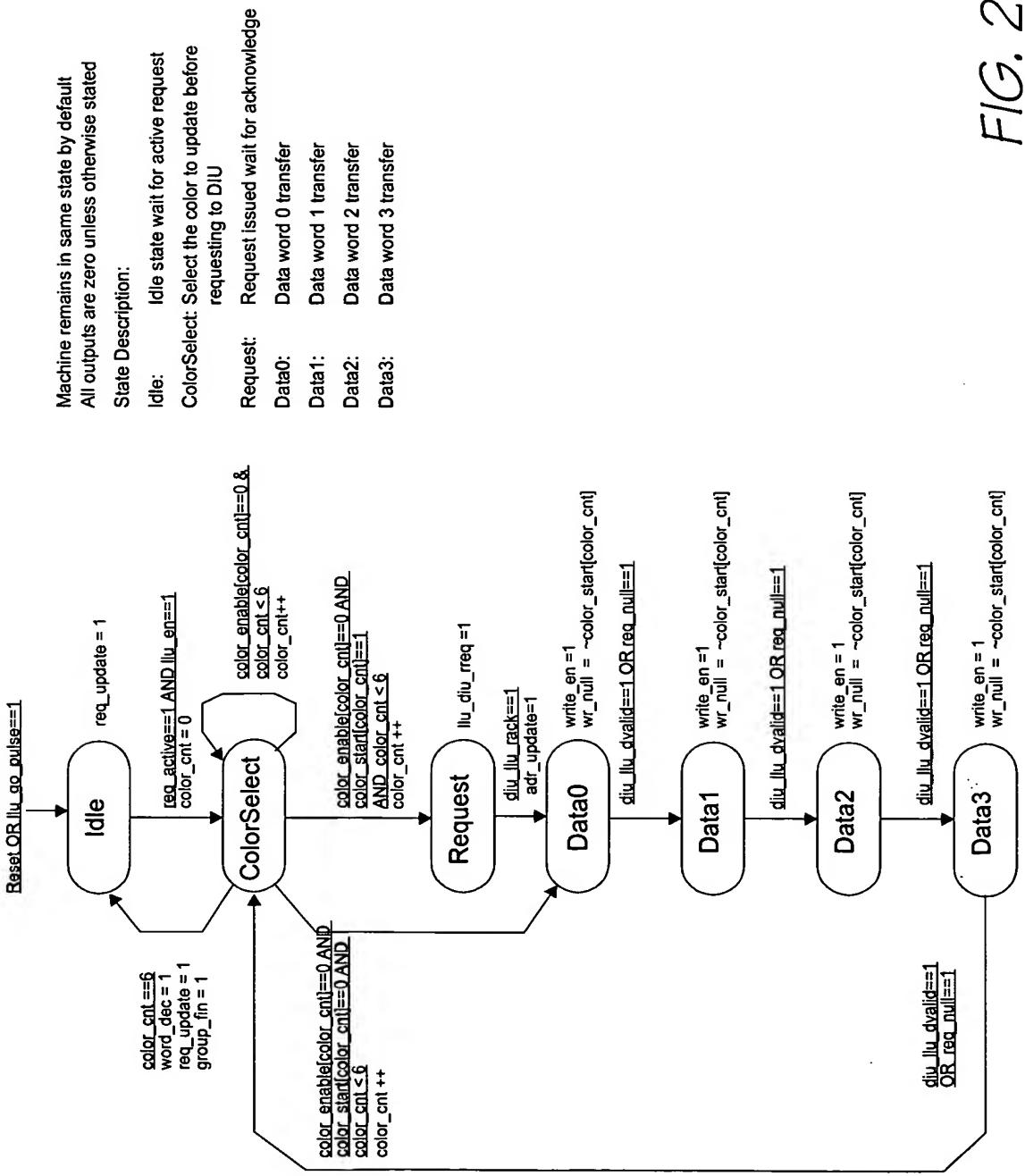


FIG. 276

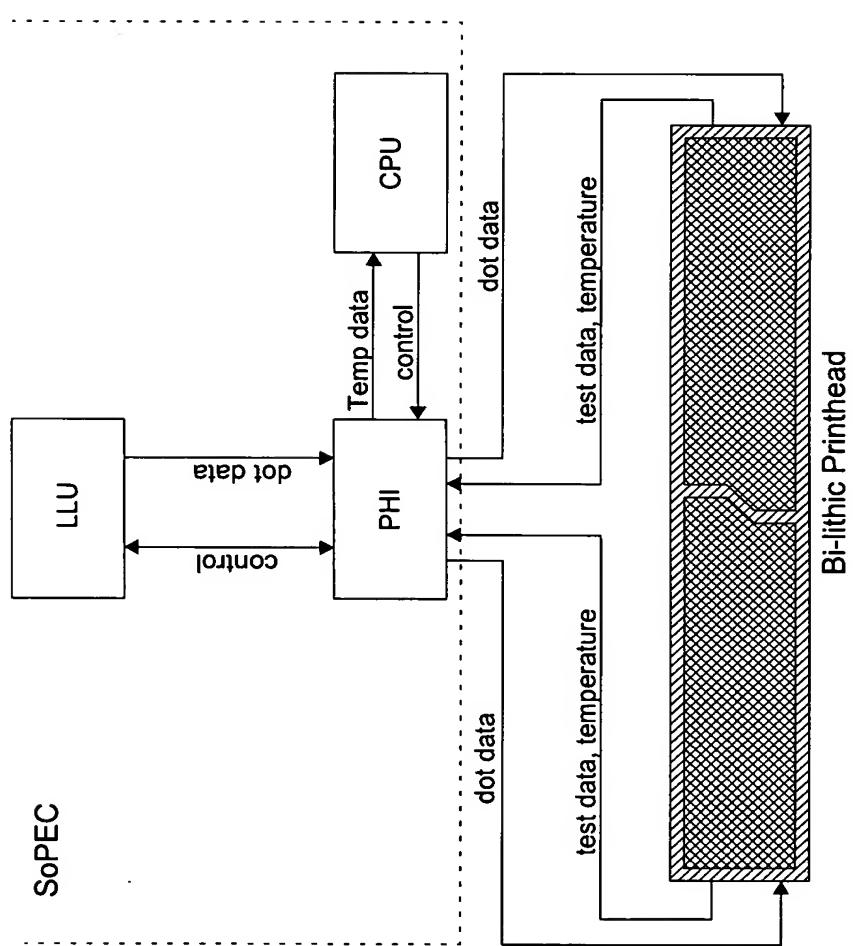


FIG. 277

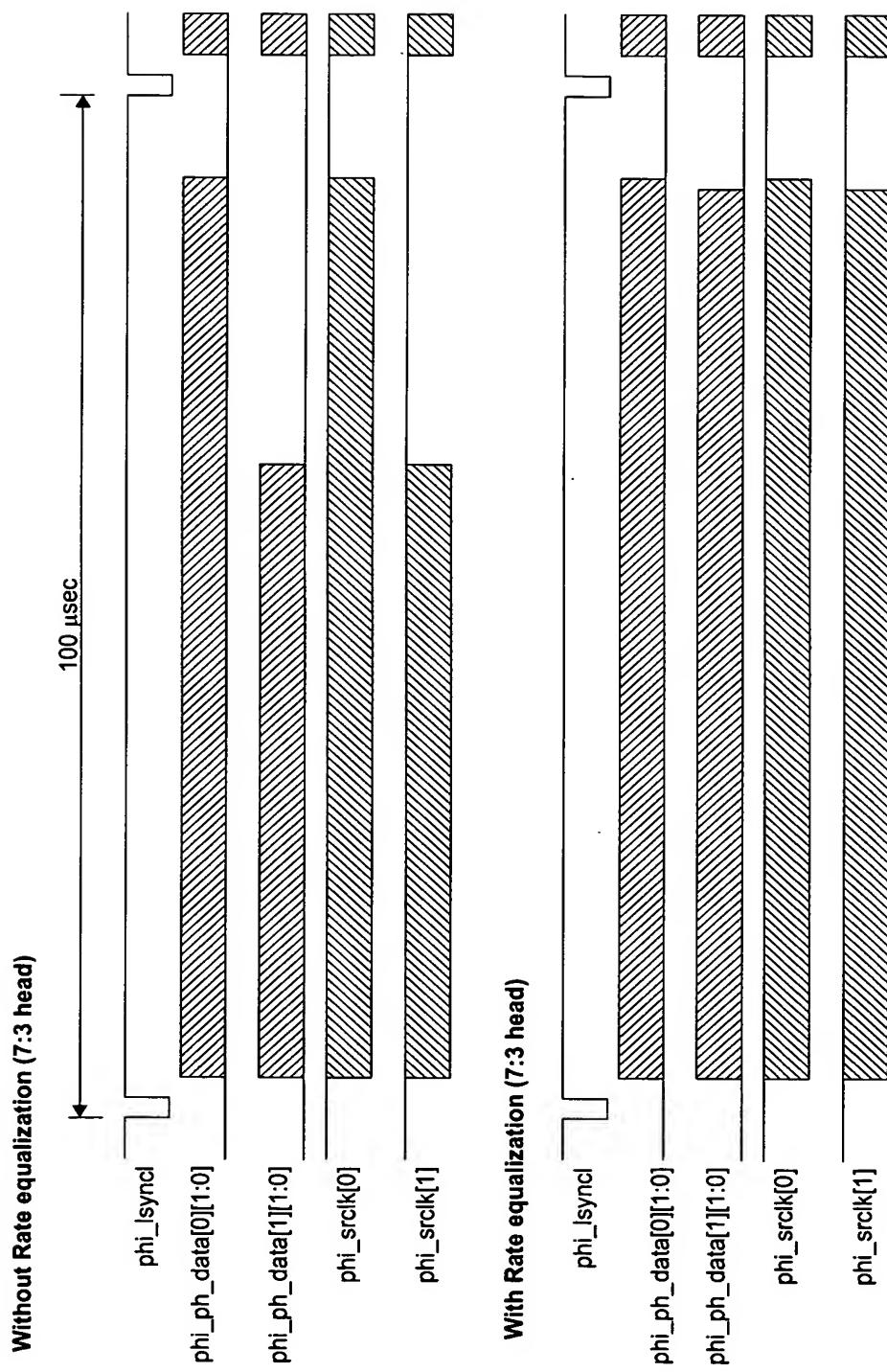


FIG. 279

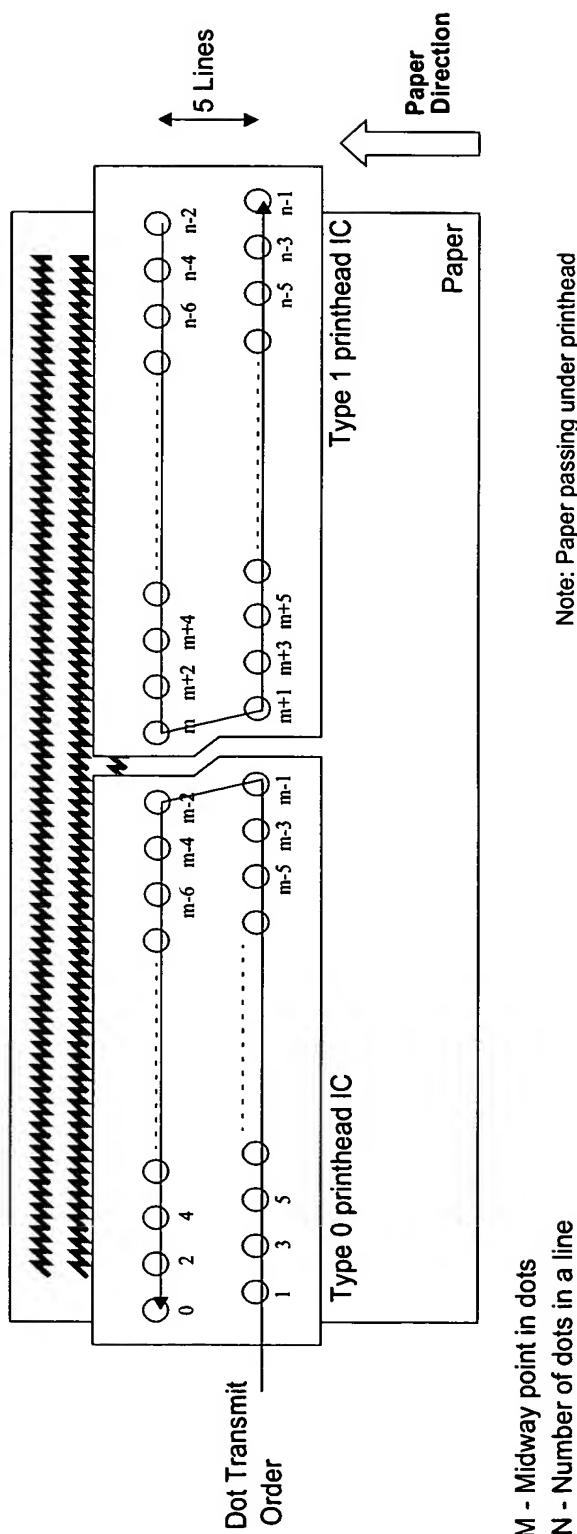


FIG. 280

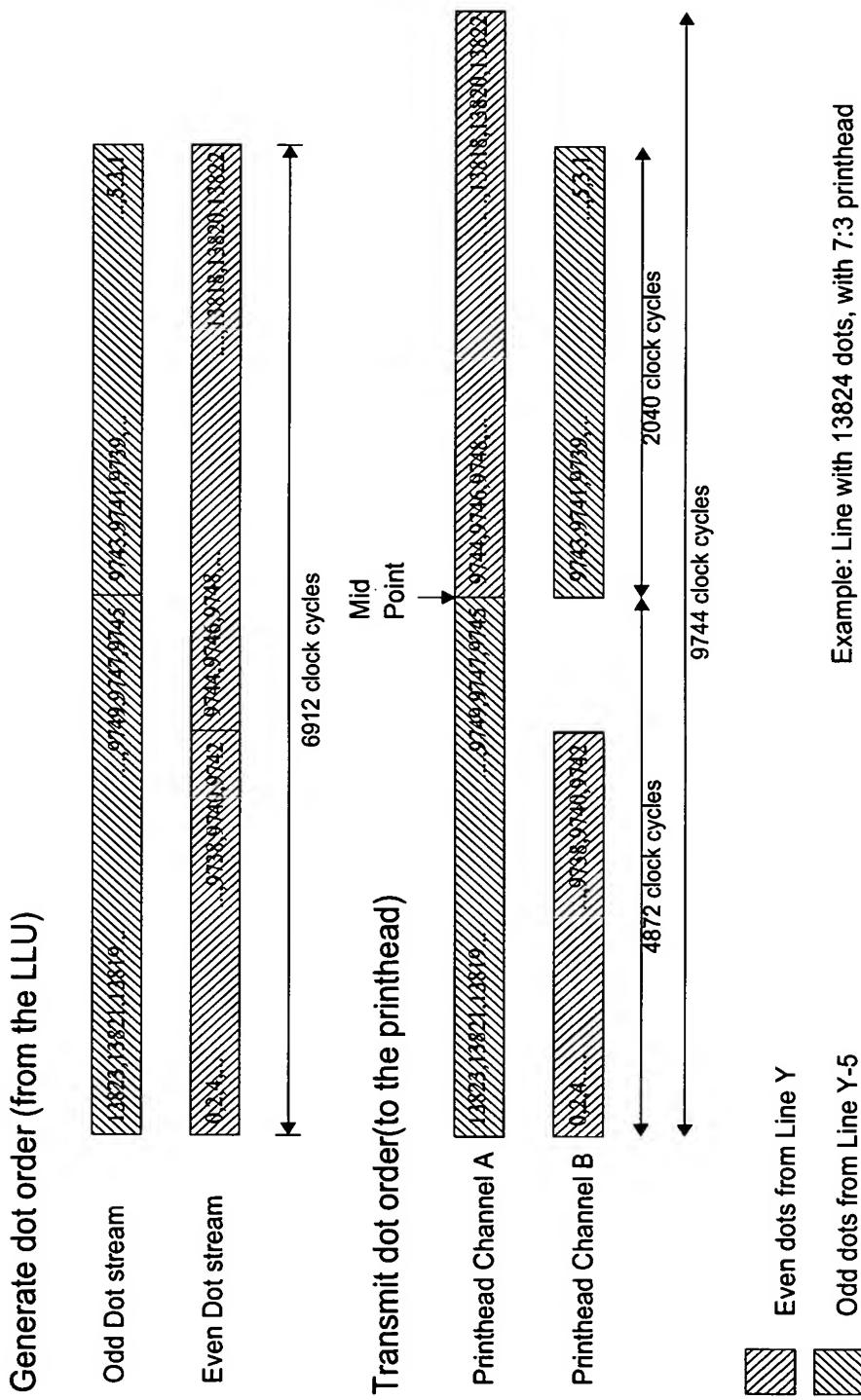


FIG. 281

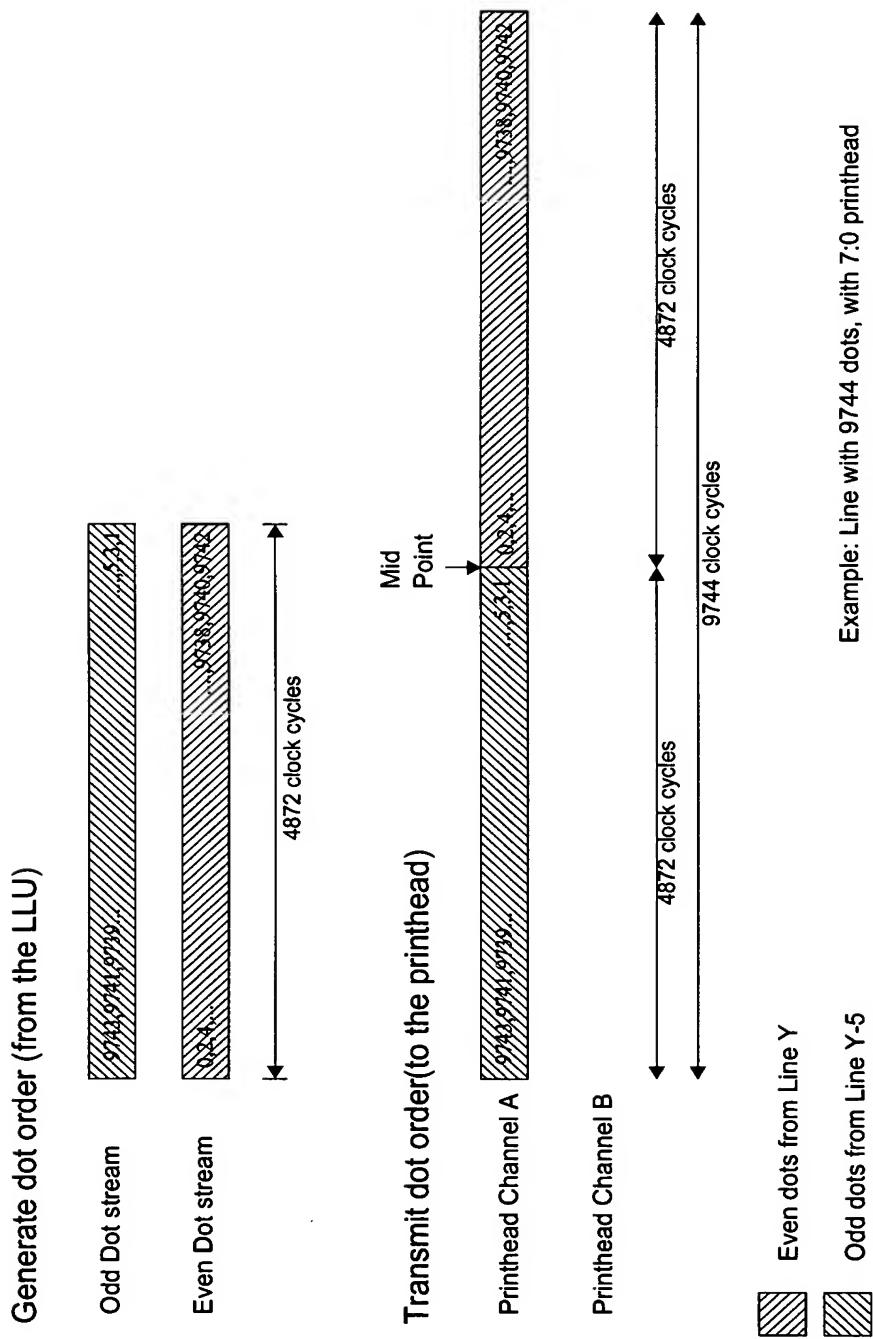


FIG. 282

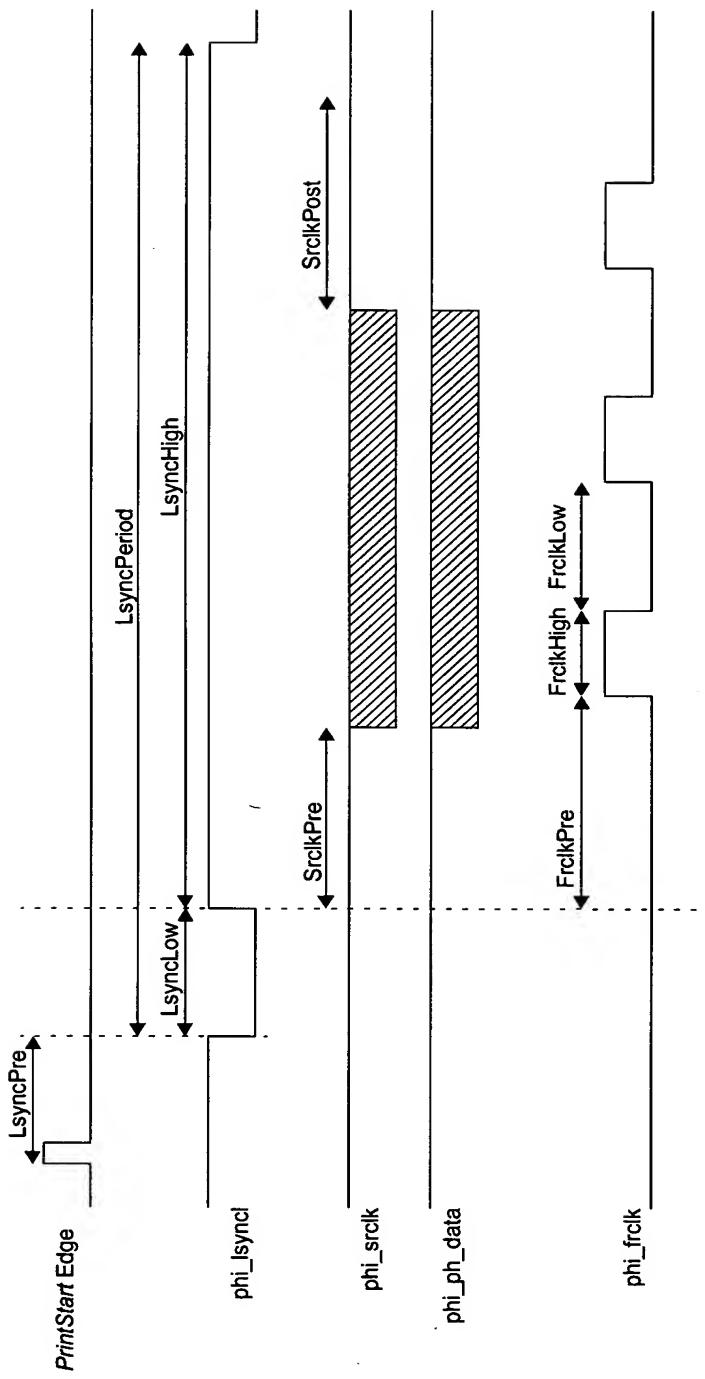


FIG. 283

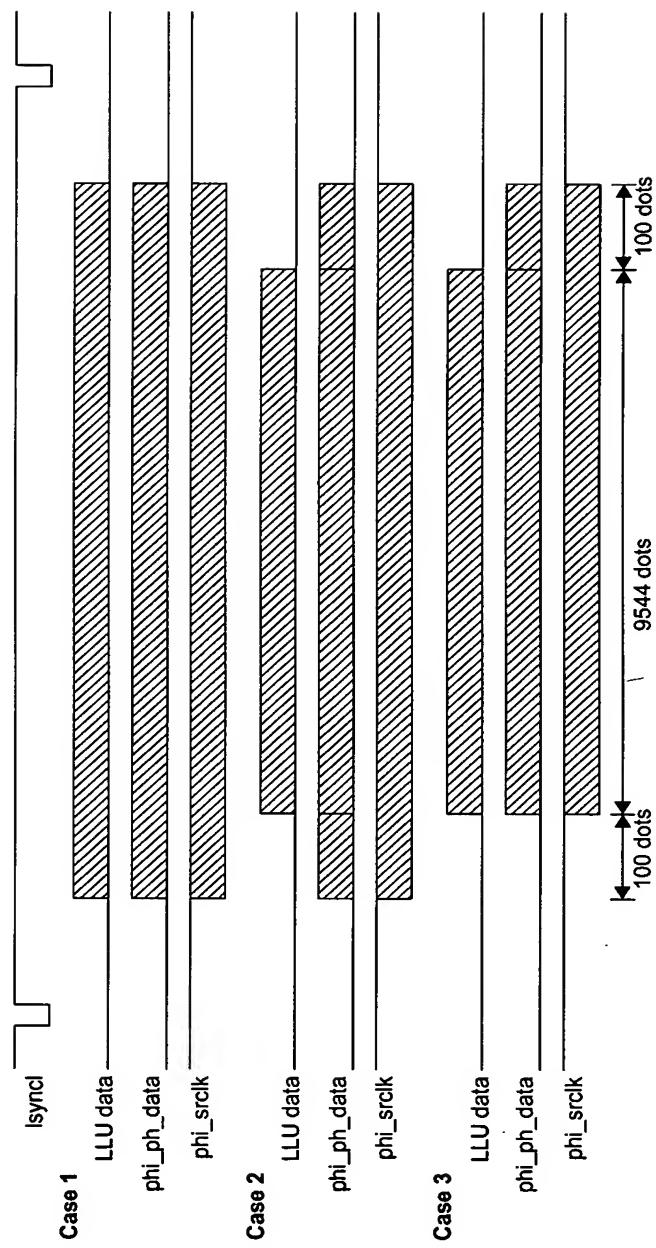
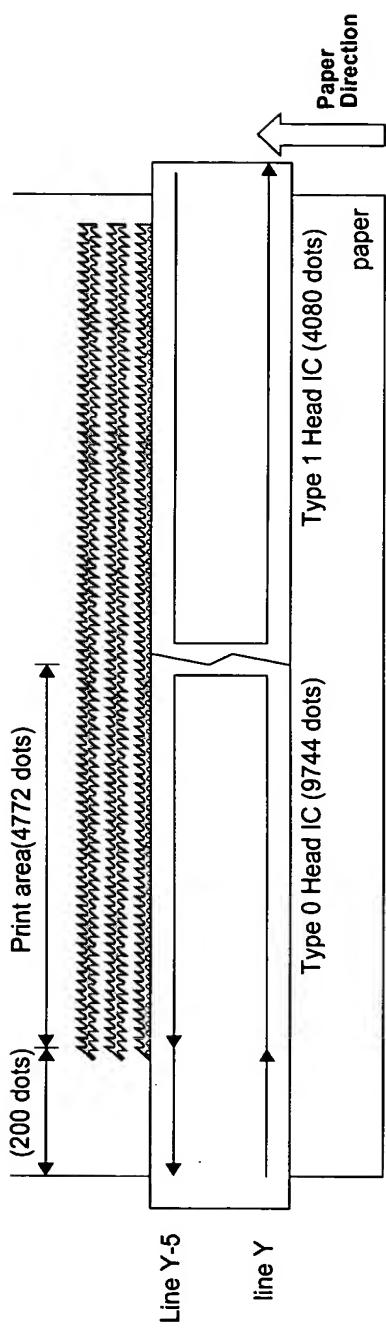


FIG. 284

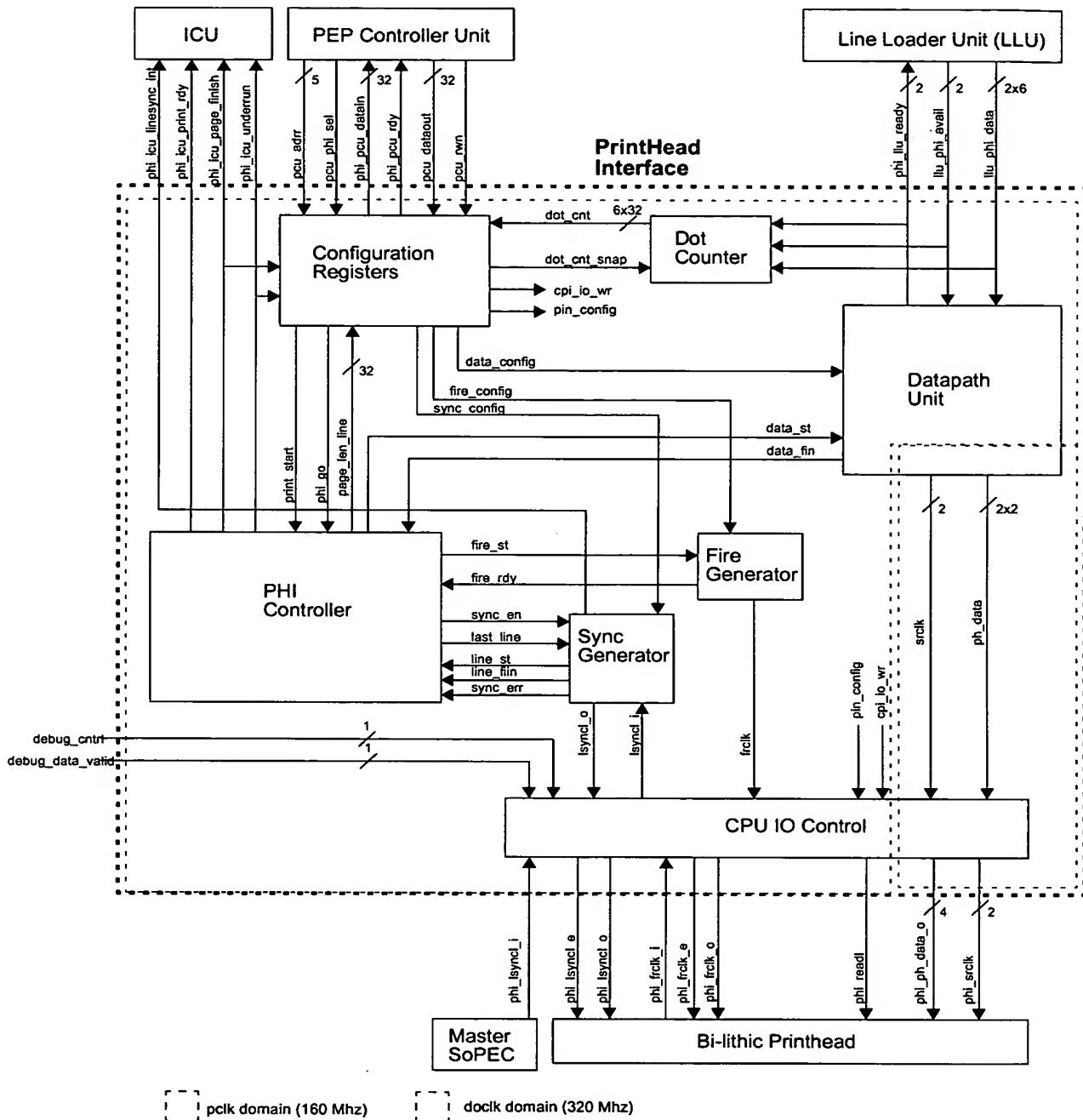


FIG. 285

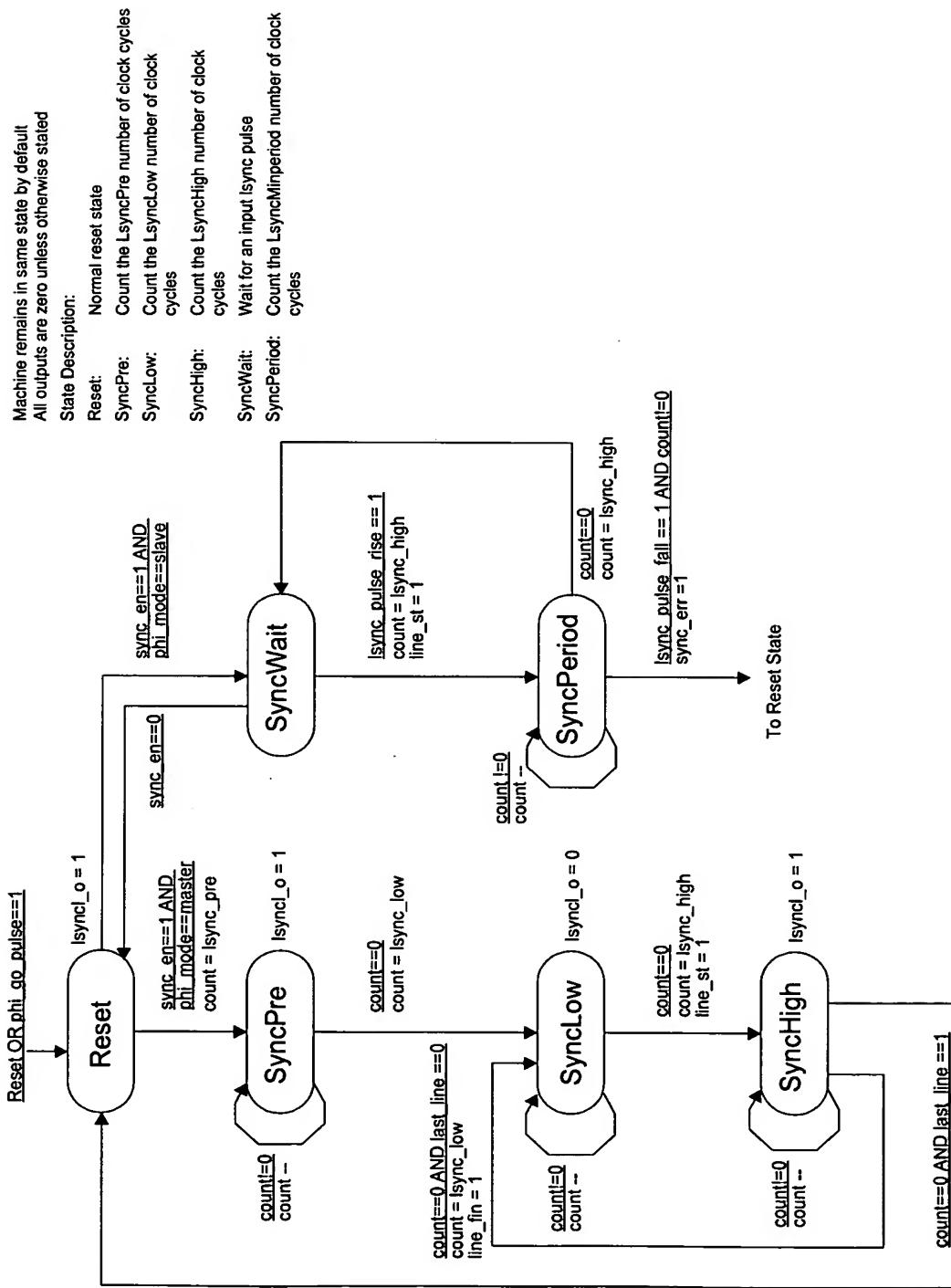


FIG. 286

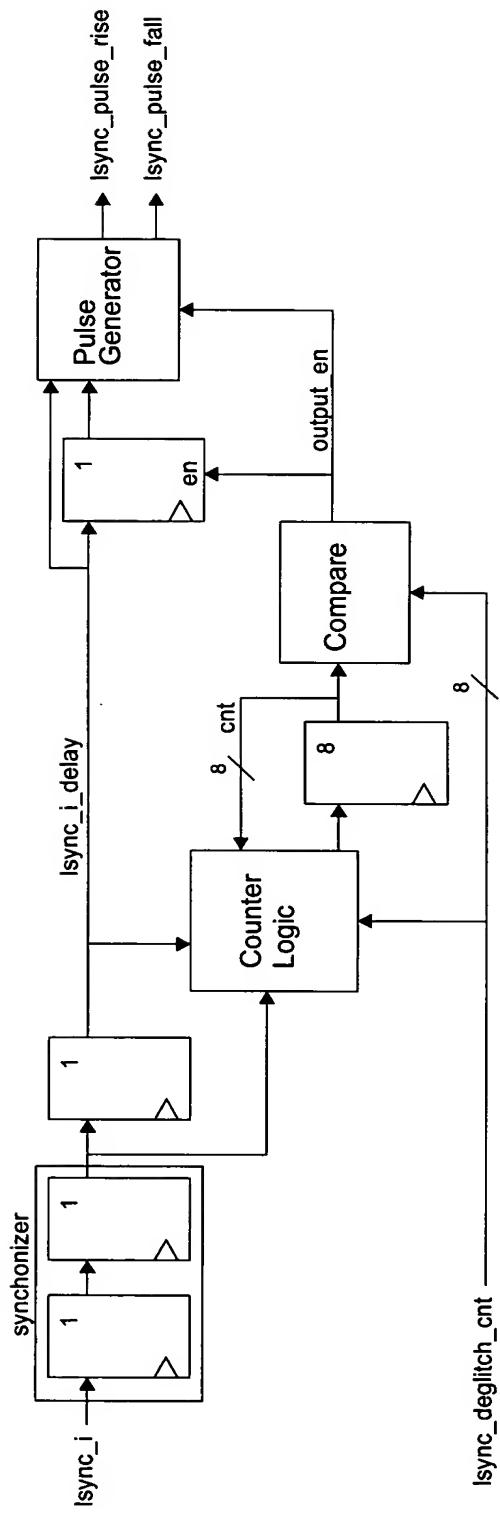
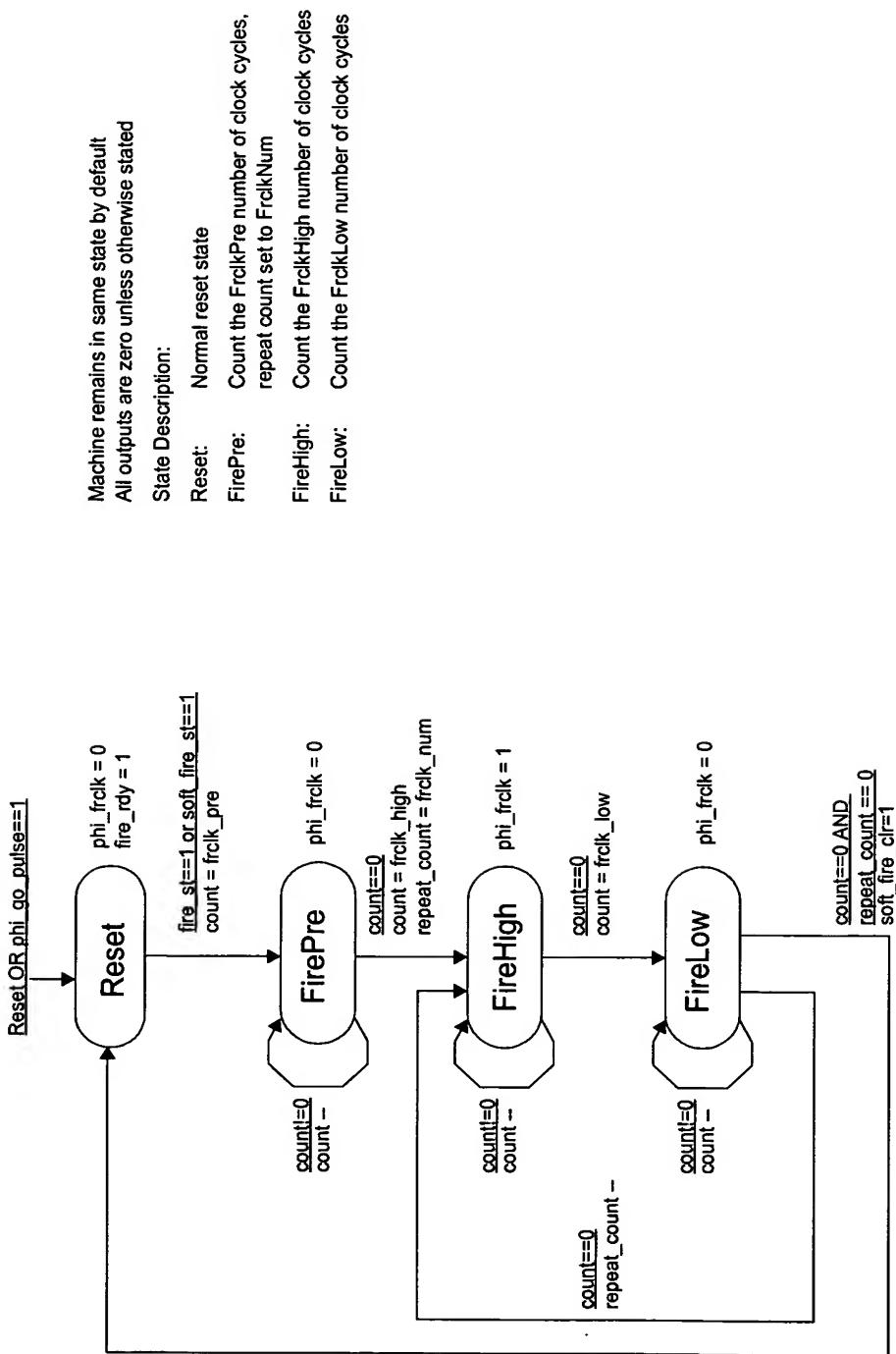


FIG. 287



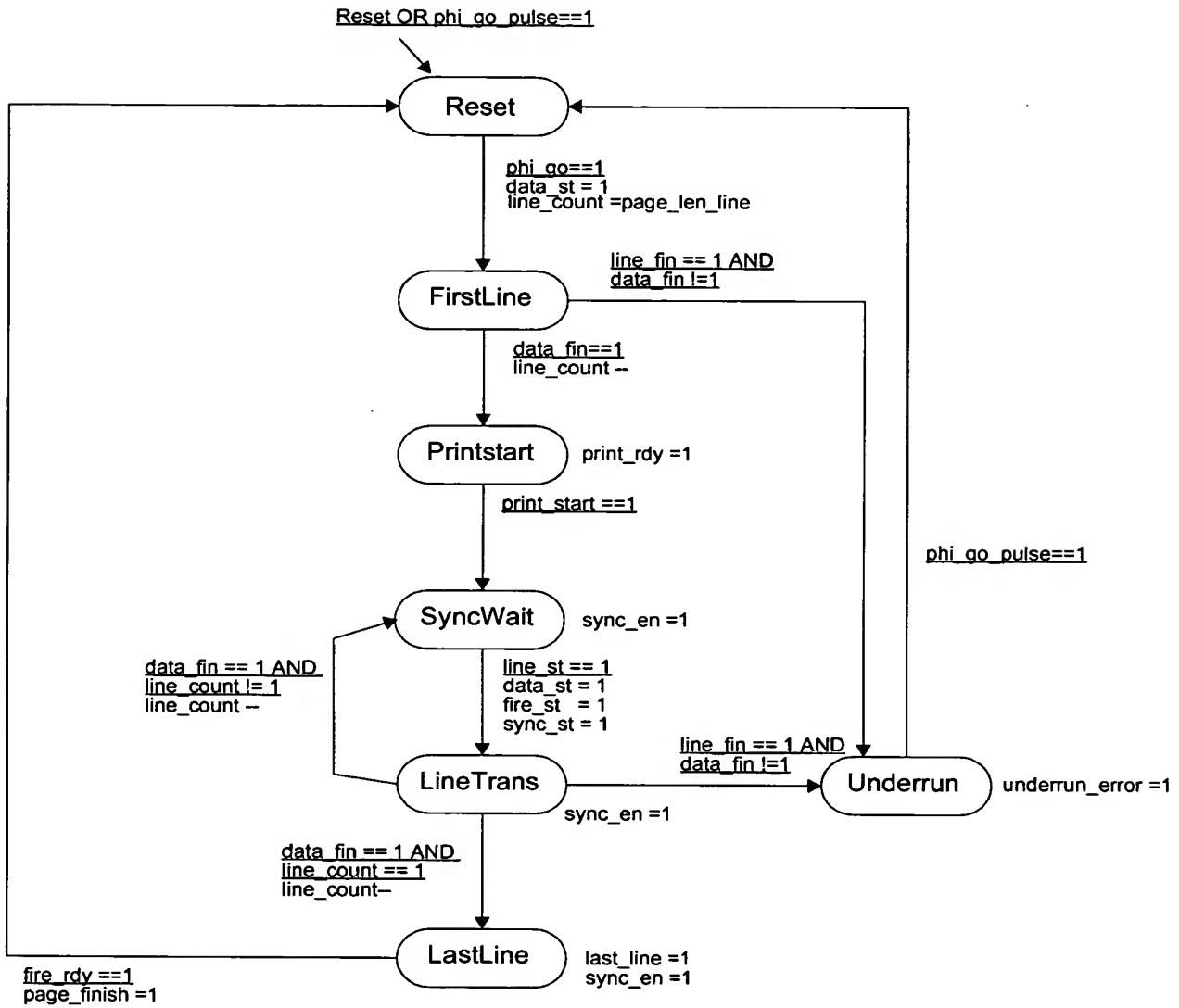


FIG. 289

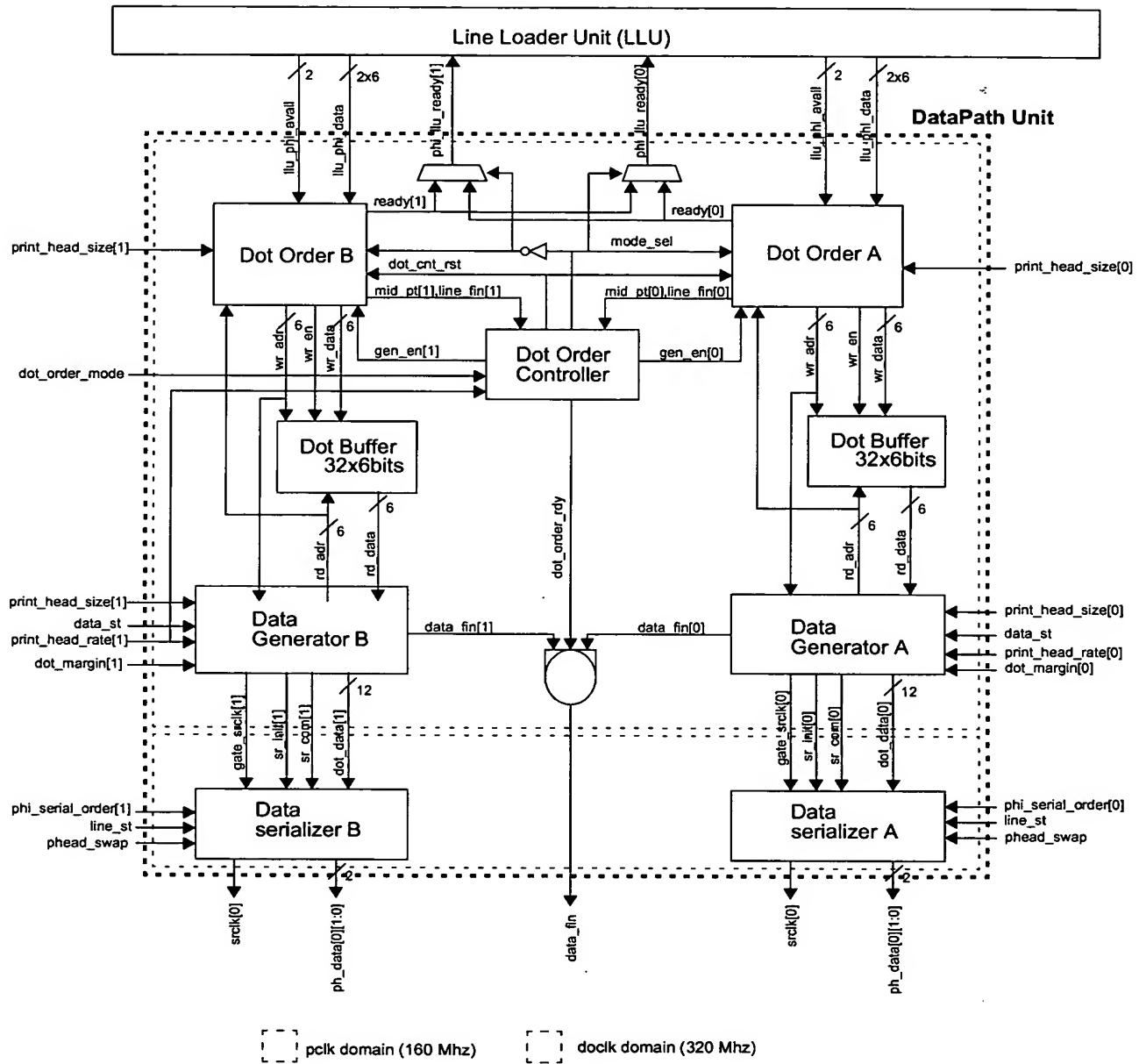


FIG. 290

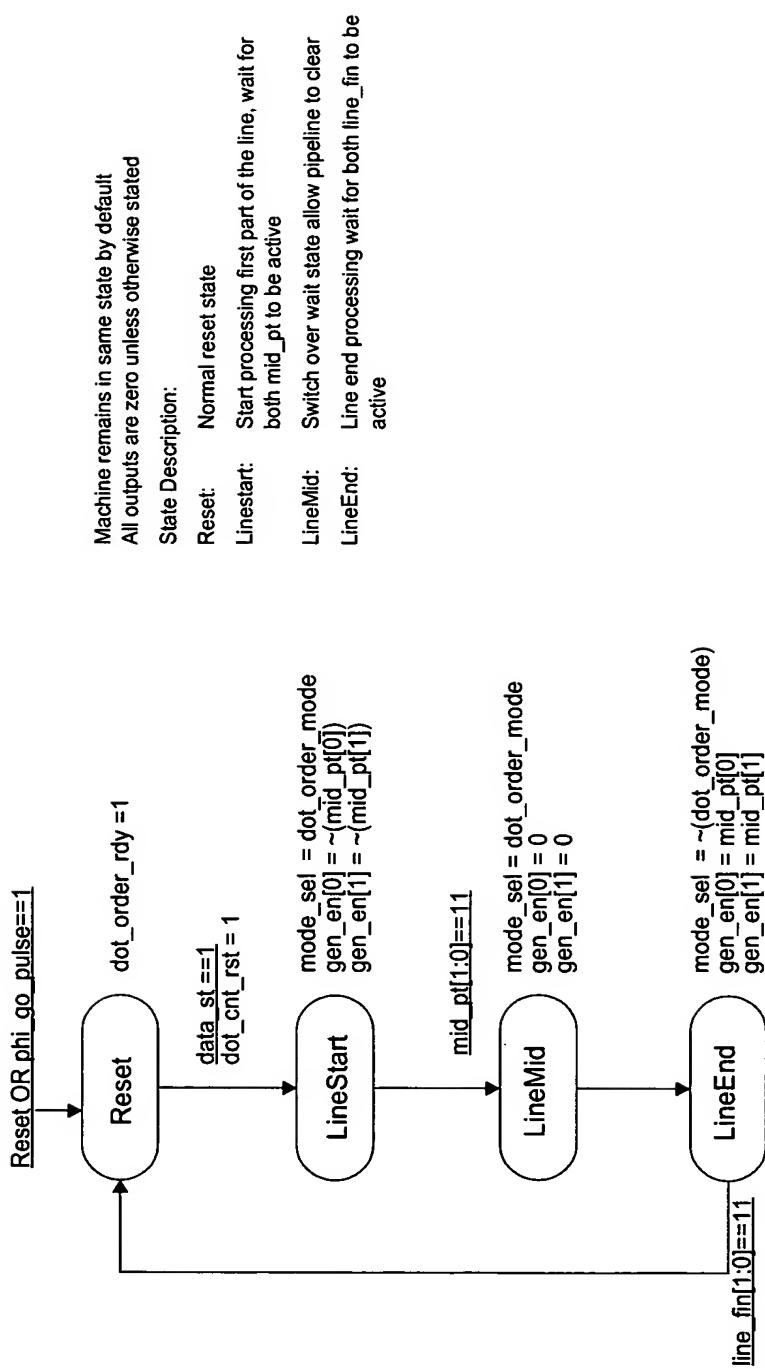
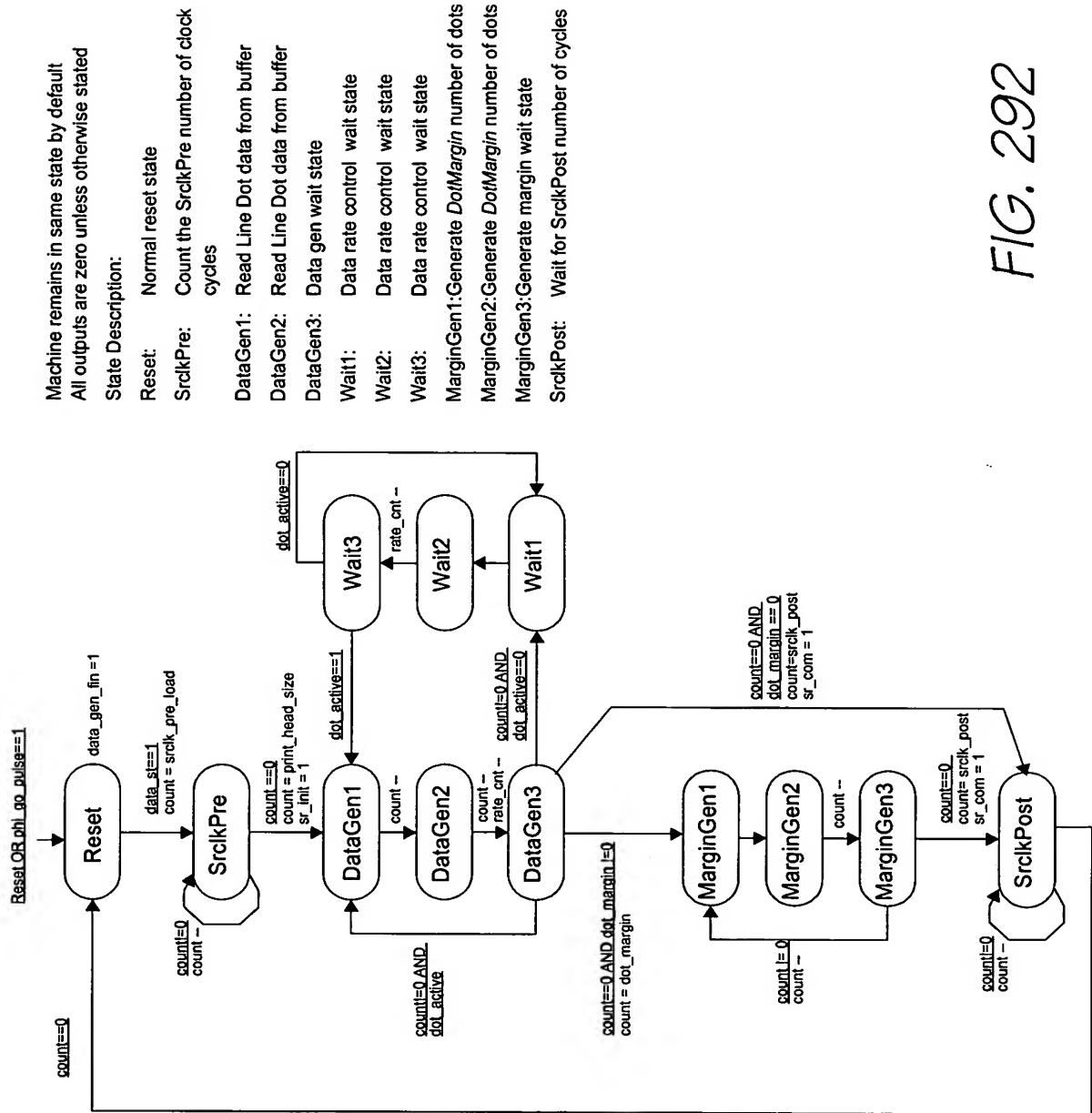


FIG. 291



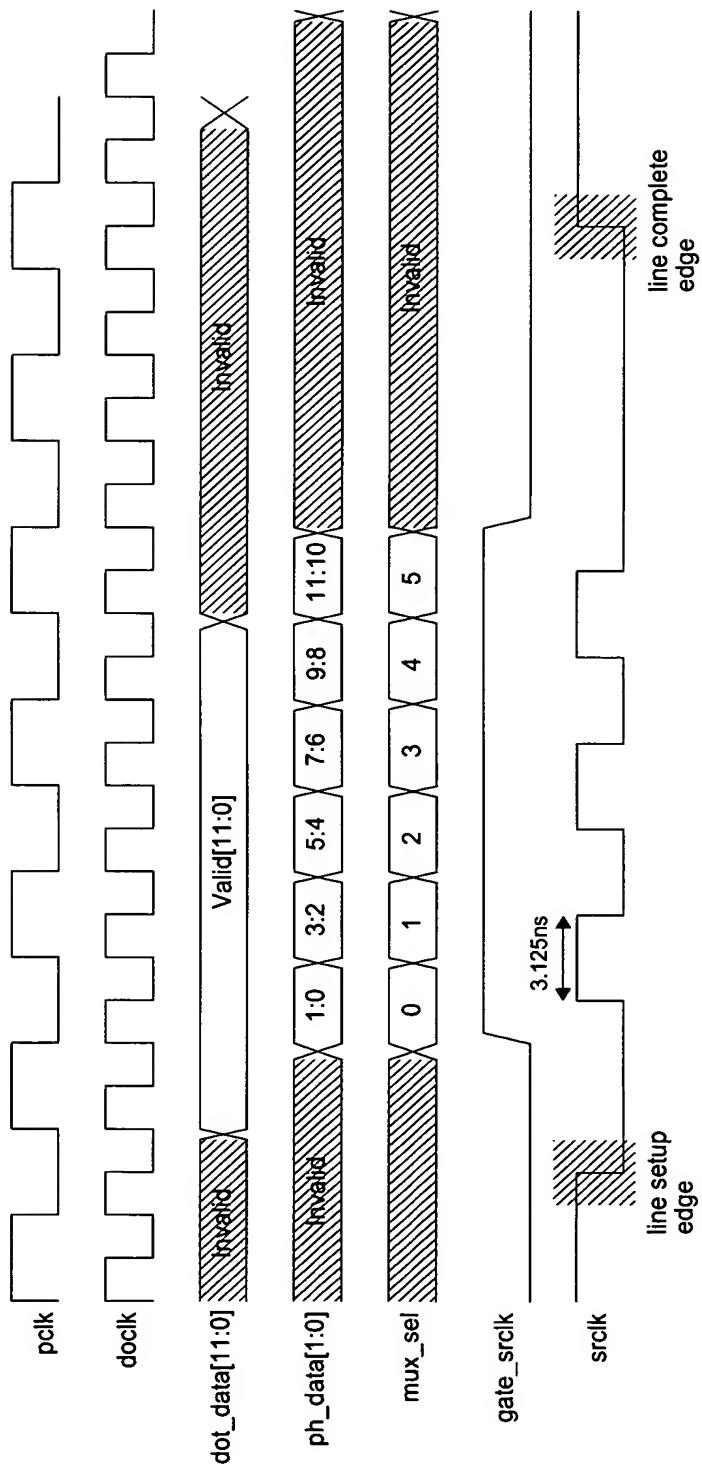


FIG. 293

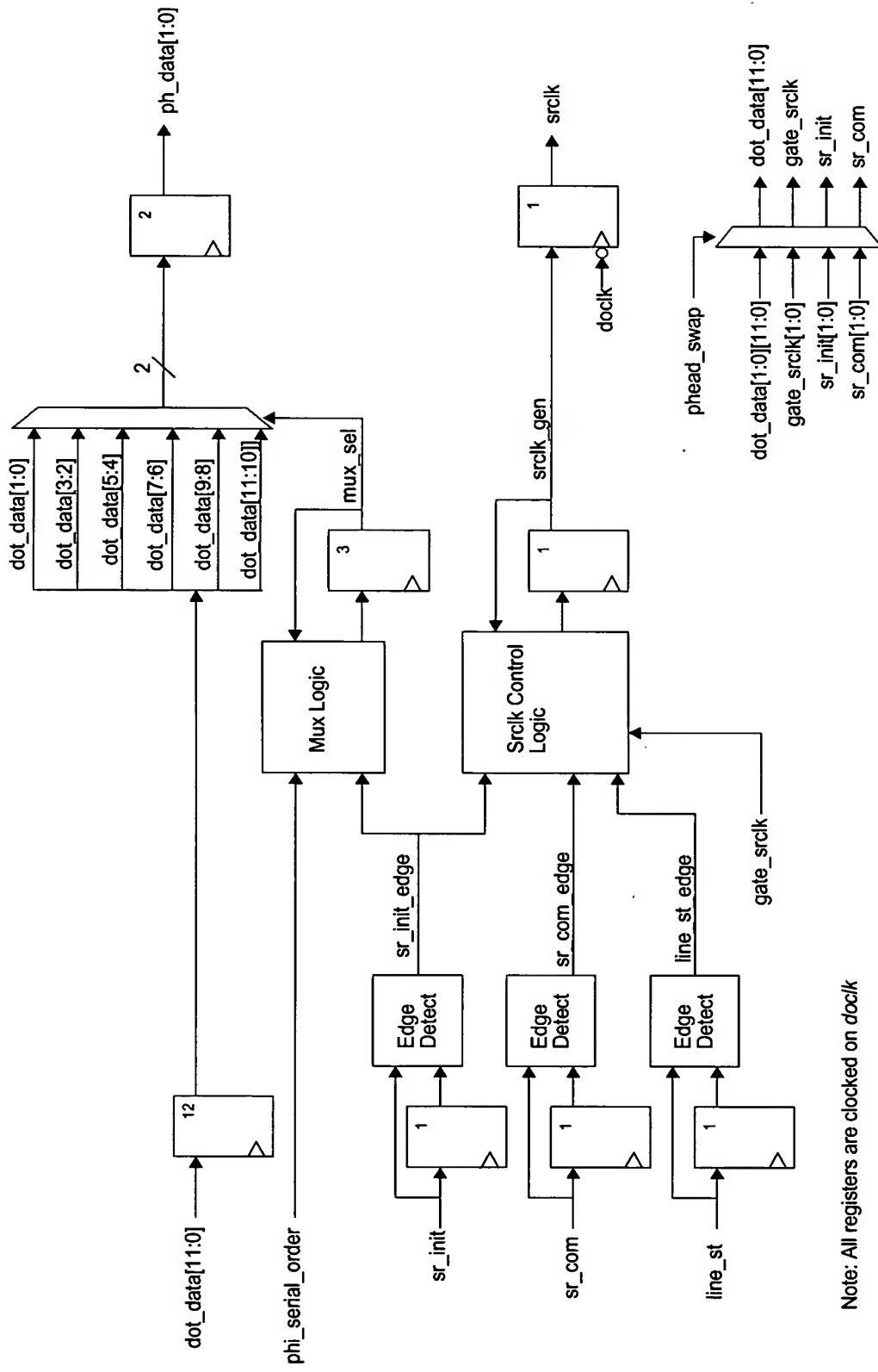


FIG. 294

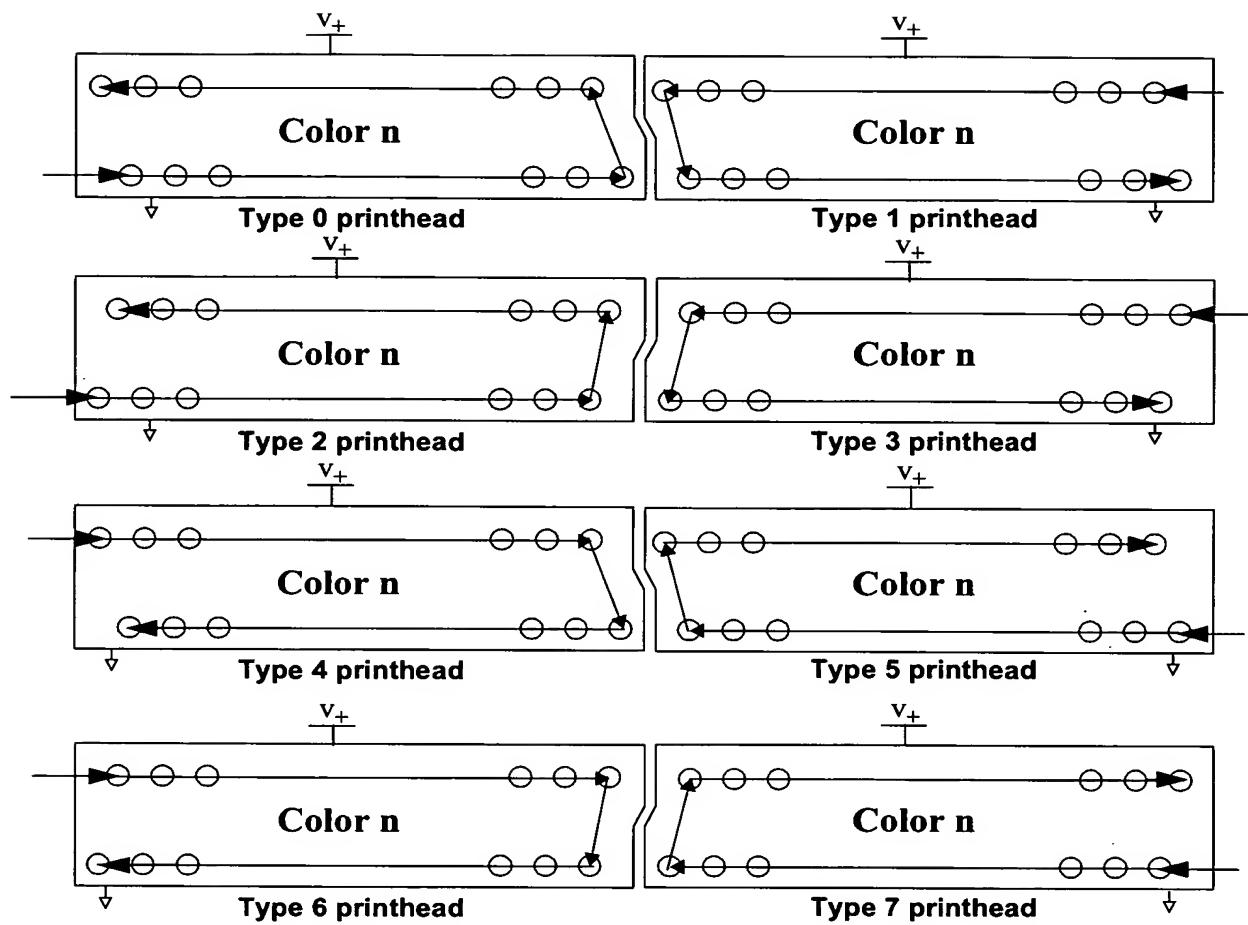


FIG. 295

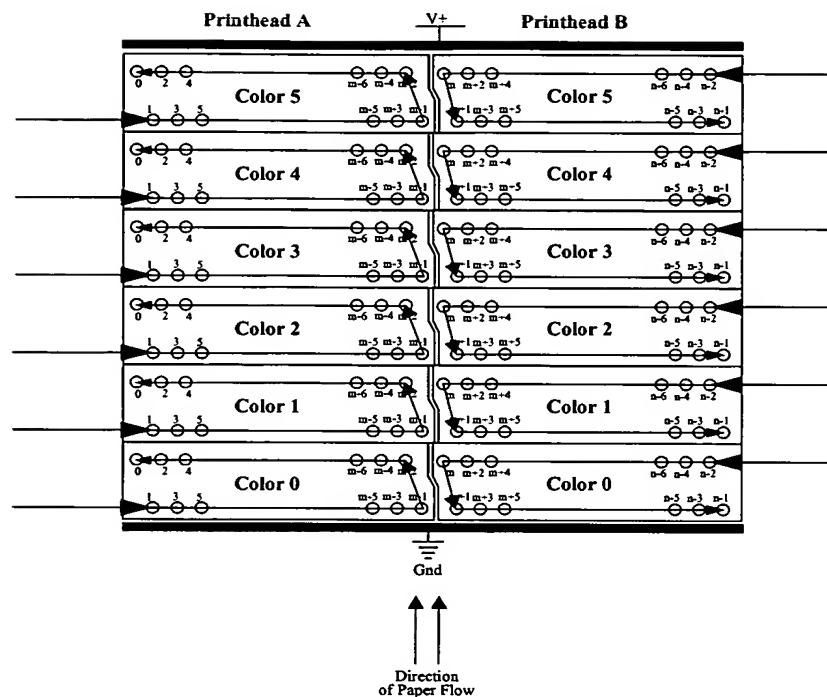


FIG. 296

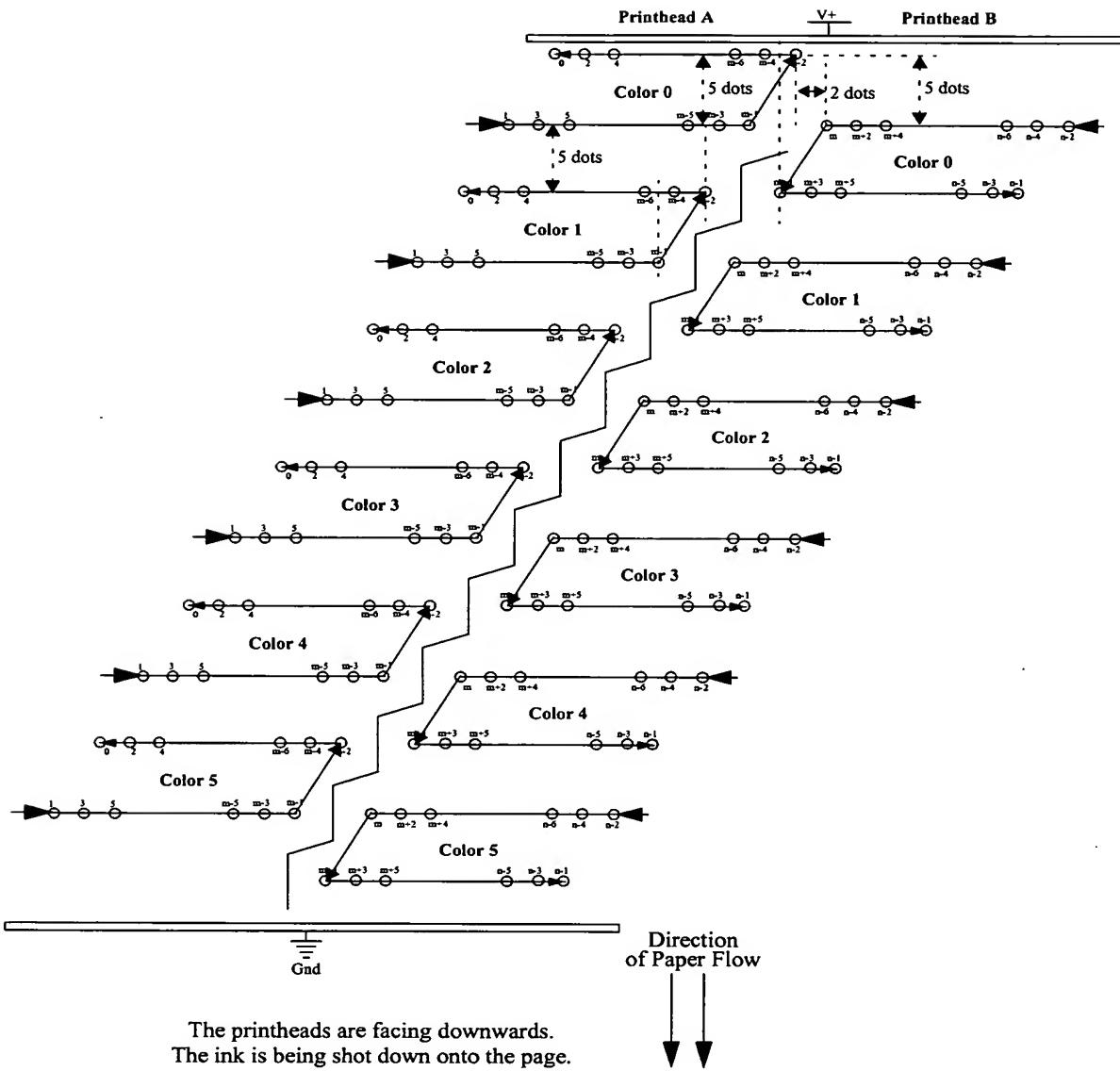


FIG. 297

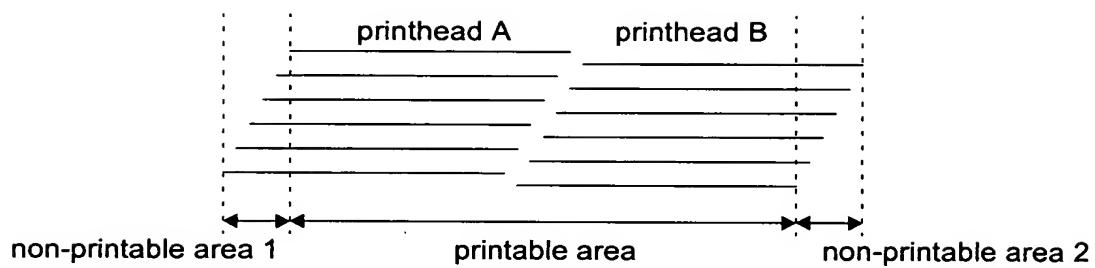
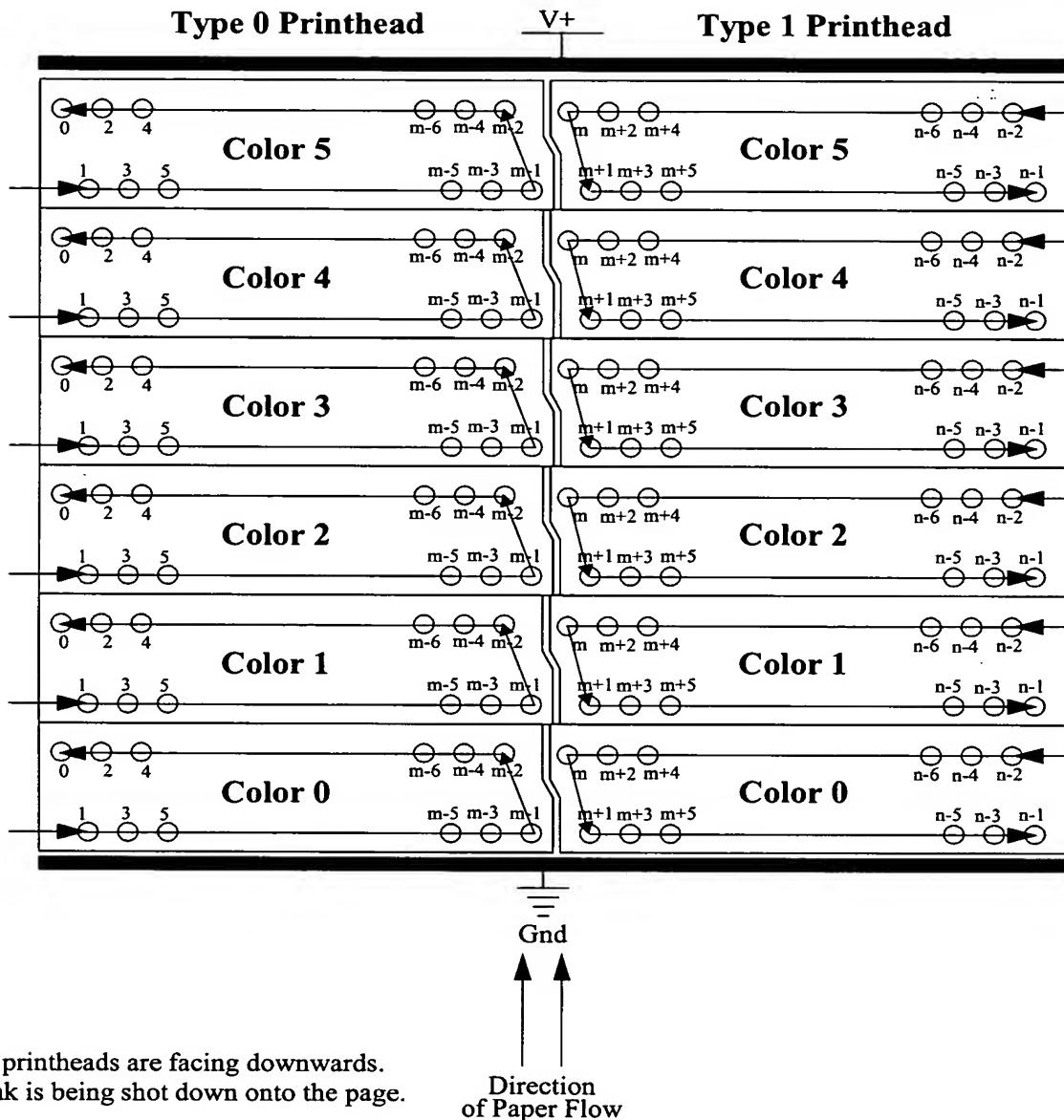


FIG. 298



The printheads are facing downwards.
The ink is being shot down onto the page.

FIG. 299

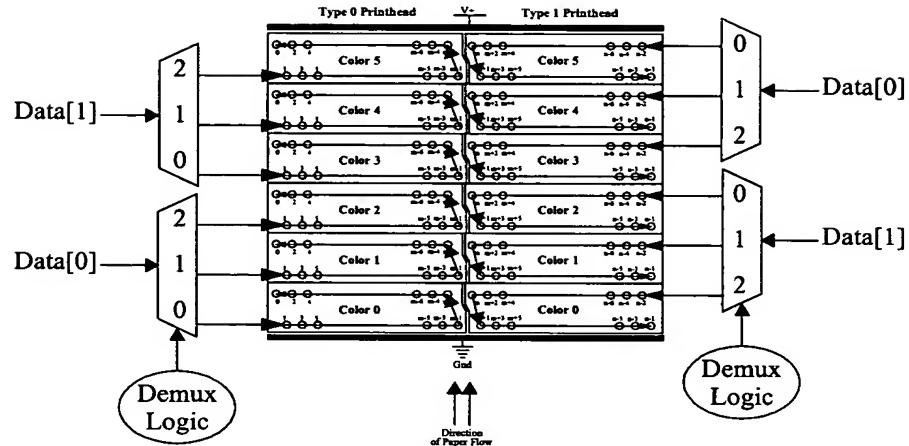


FIG. 300

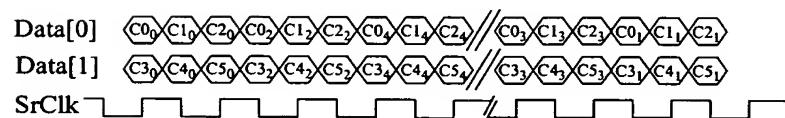


FIG. 301

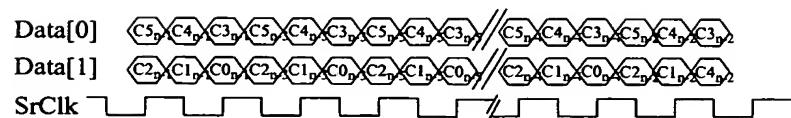


FIG. 302

The printheads are facing downwards.
The ink is being shot down onto the page.

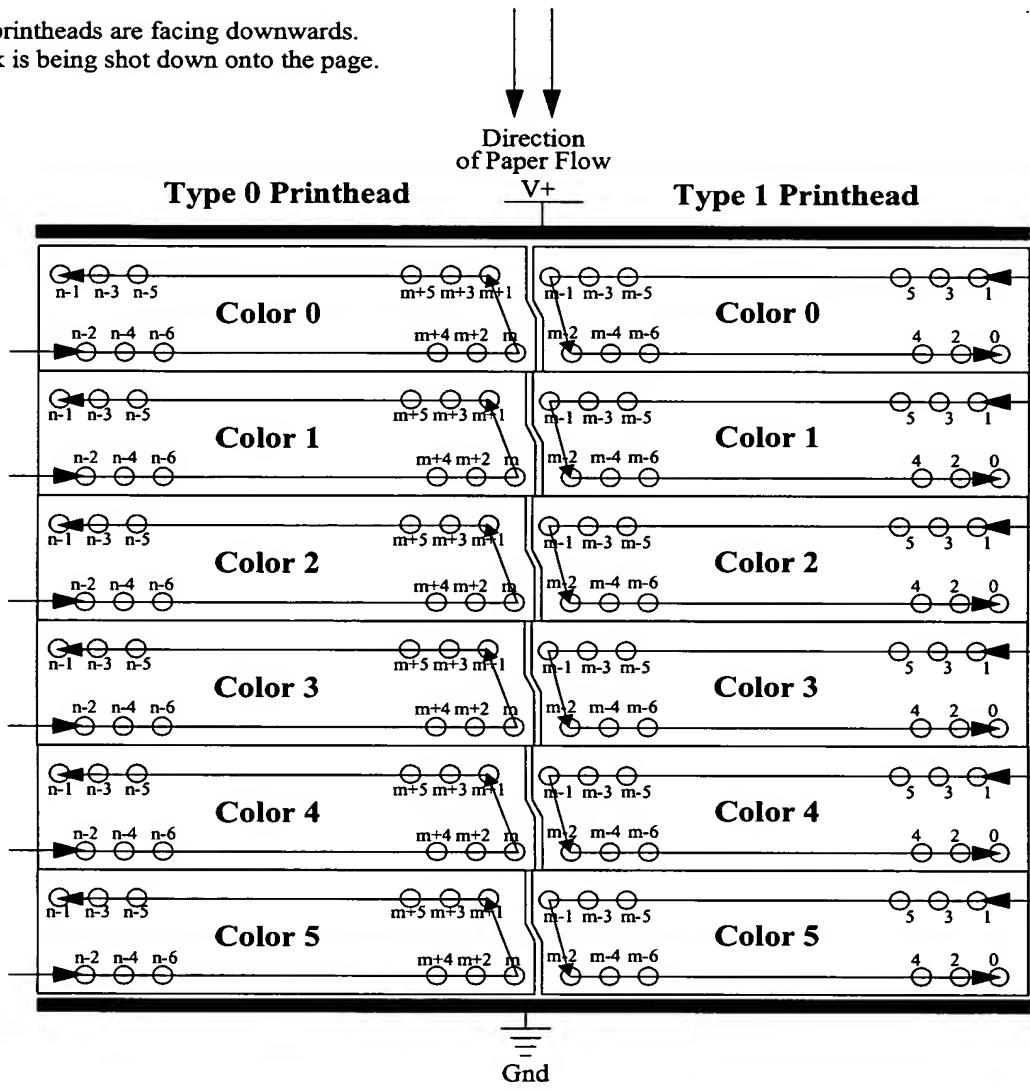


FIG. 303

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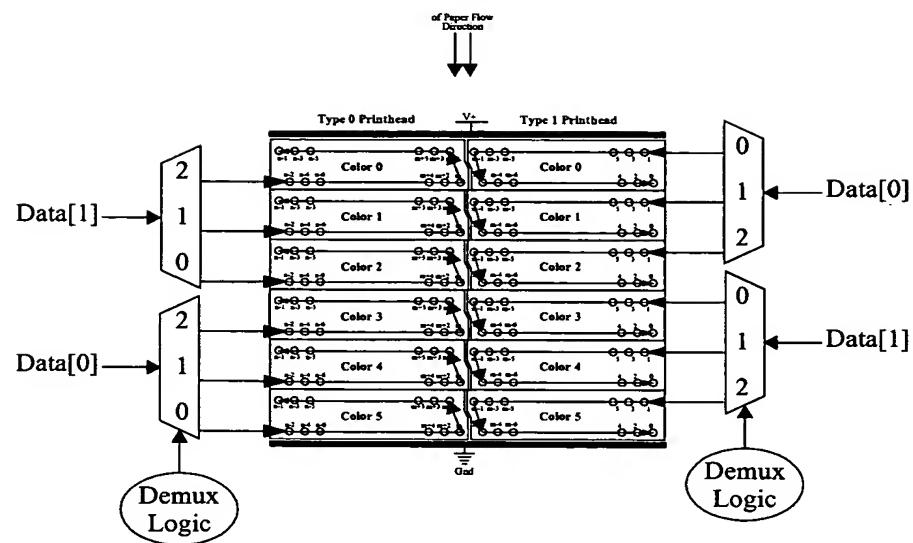


FIG. 304

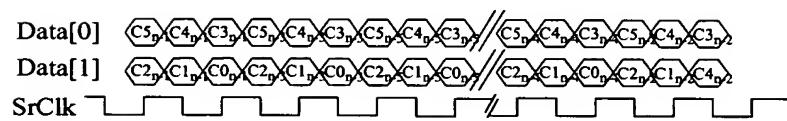


FIG. 305

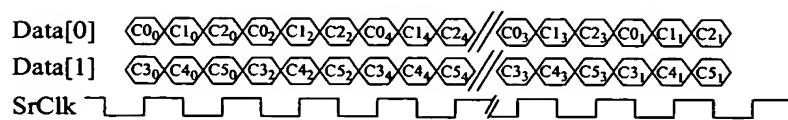


FIG. 306

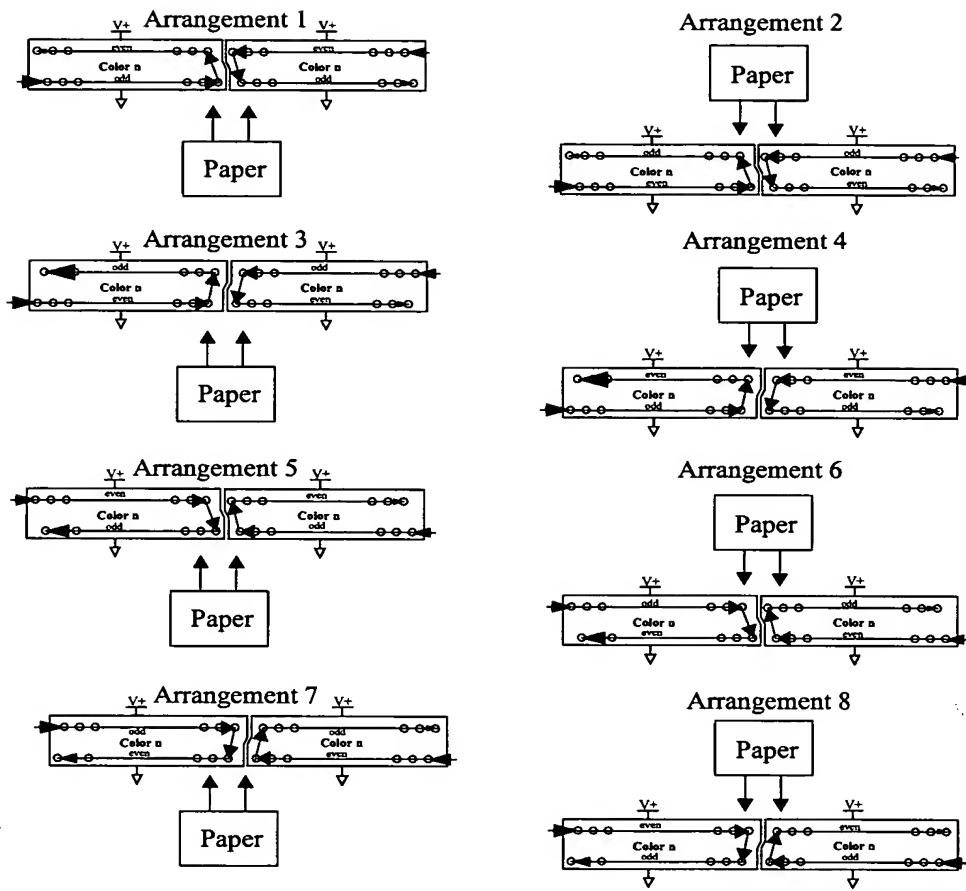


FIG. 307

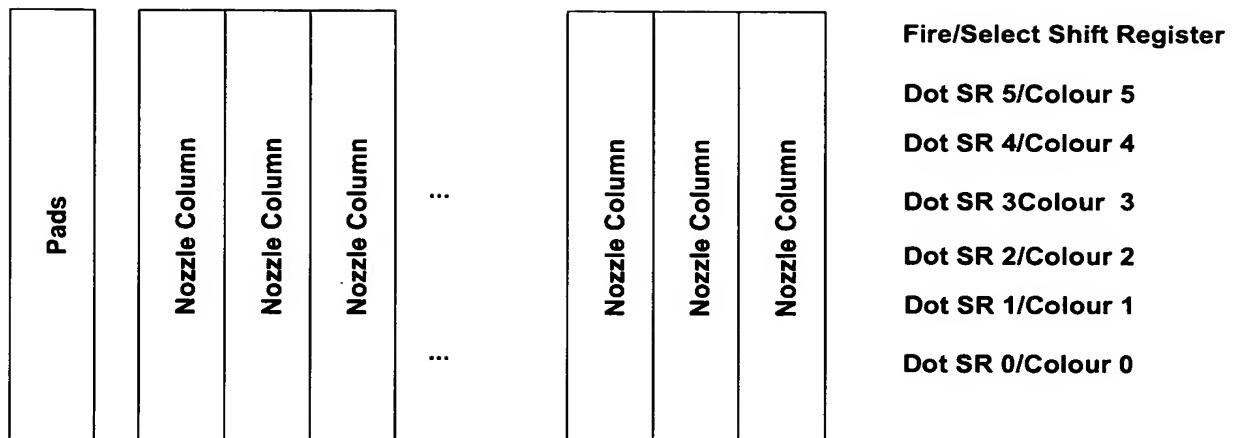


FIG. 308

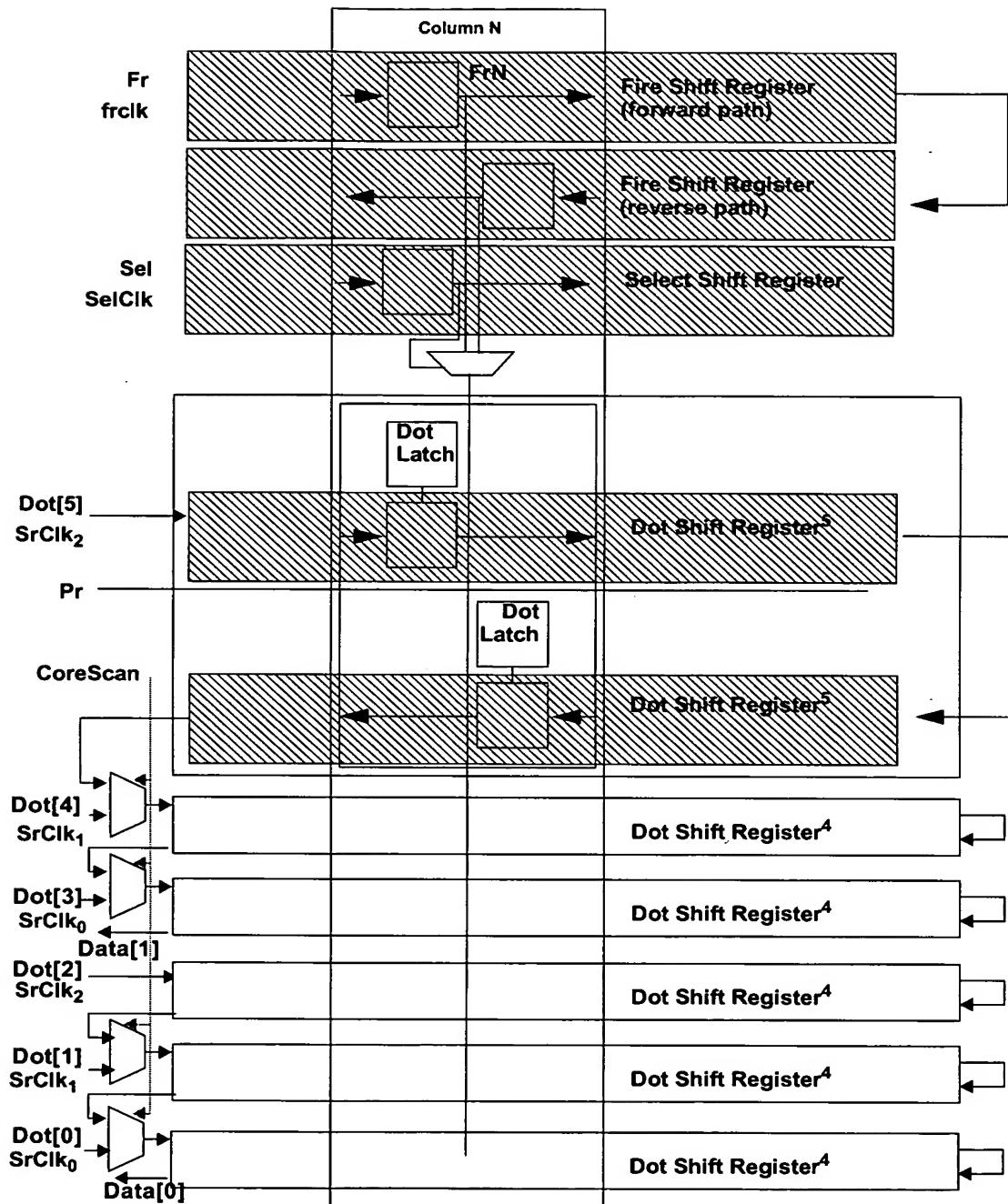


FIG. 309

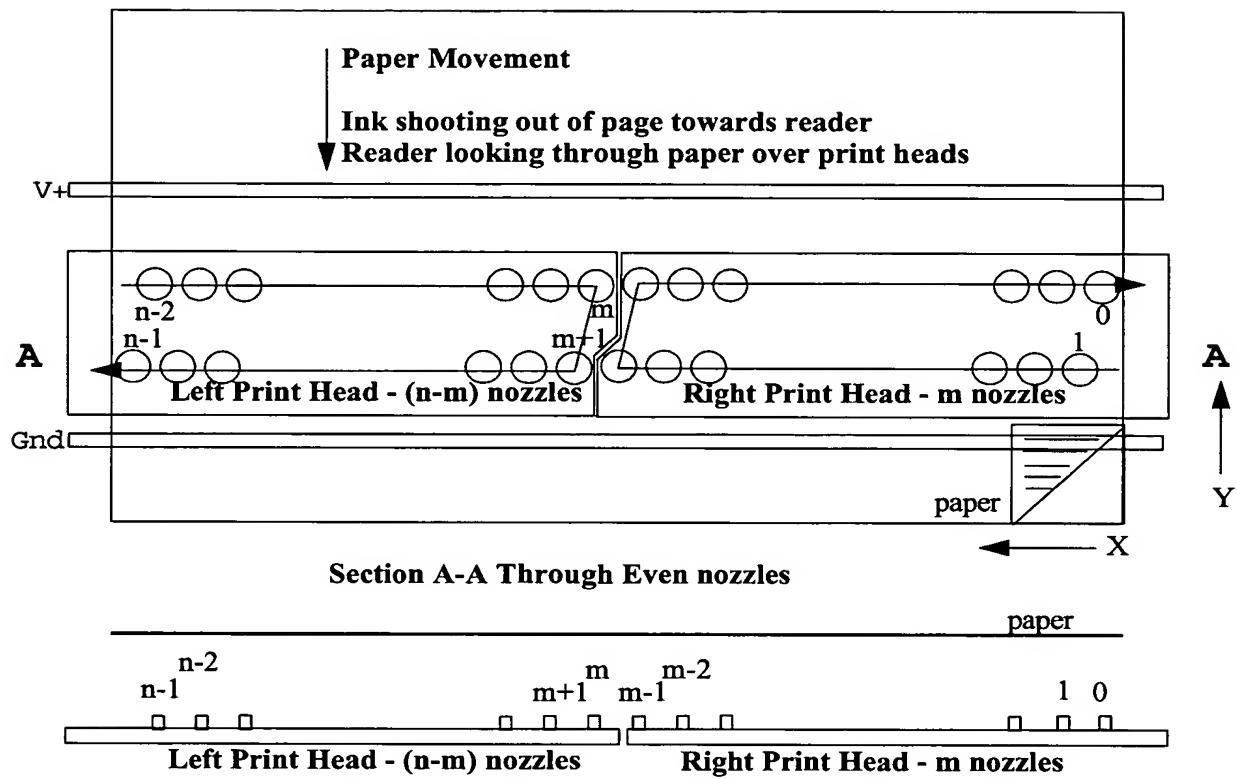


FIG. 310

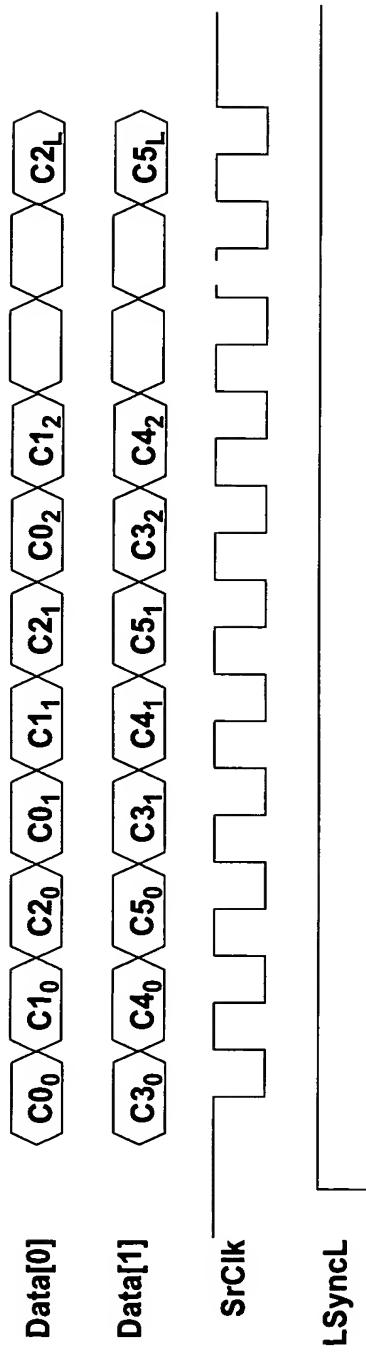
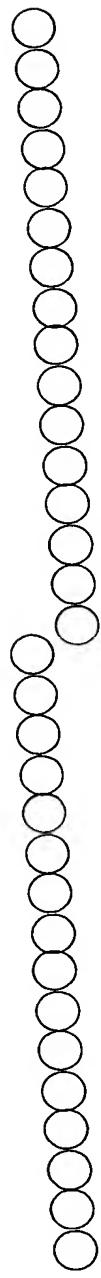
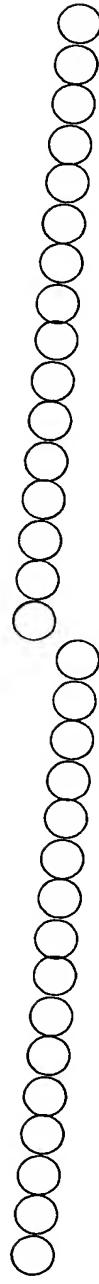


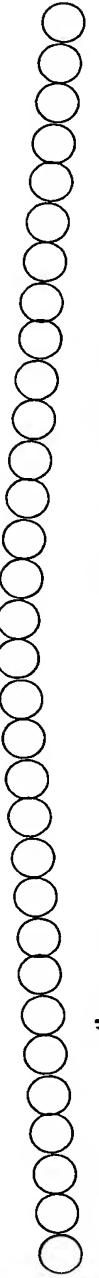
FIG. 311



a) Printing every n^{th} dot with all zero's in the fire select shift register



b) Printing every n^{th} dot with all one's in the fire select shift register



c) Printing every n^{th} dot with n zero's then n one's in the fire select shift registers

FIG. 312

FIG. 313

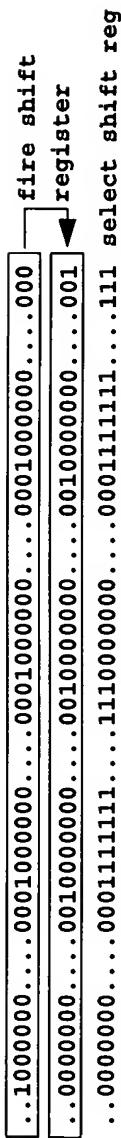
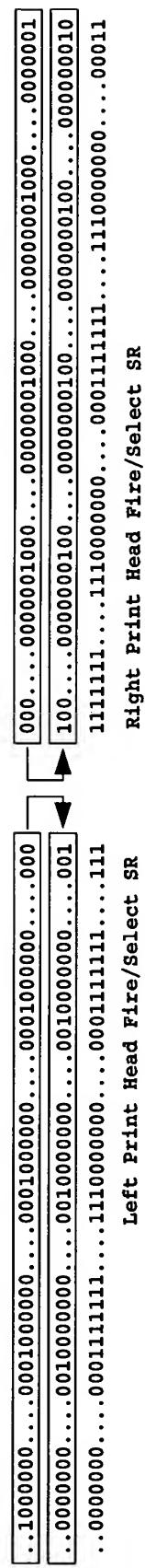


FIG. 314



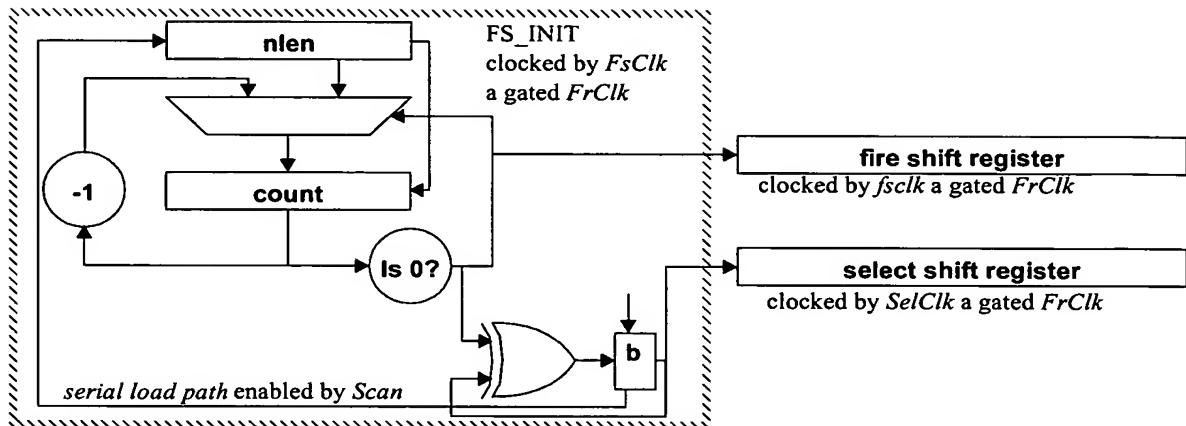


FIG. 315

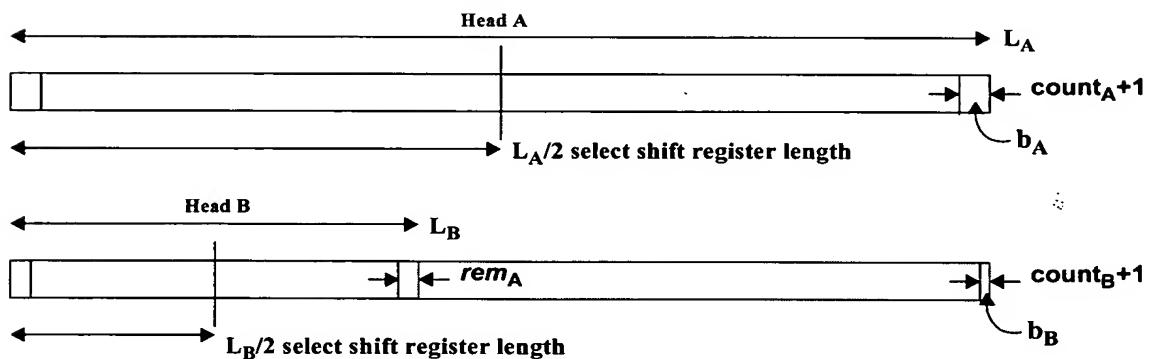


FIG. 316

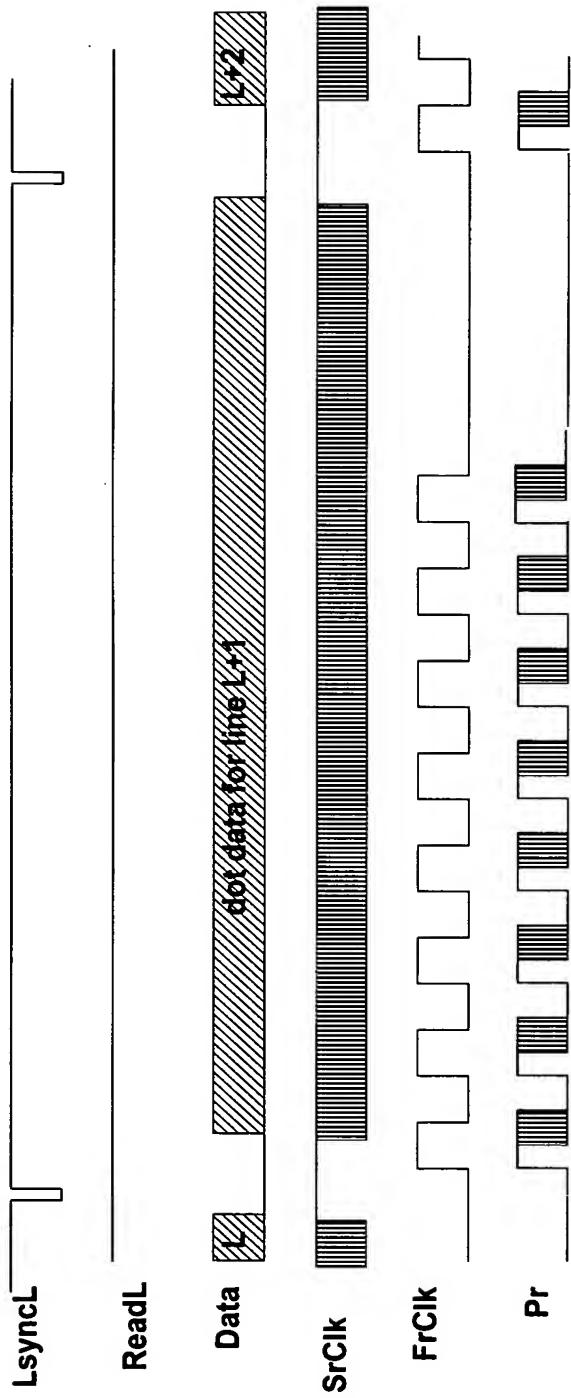


FIG. 317

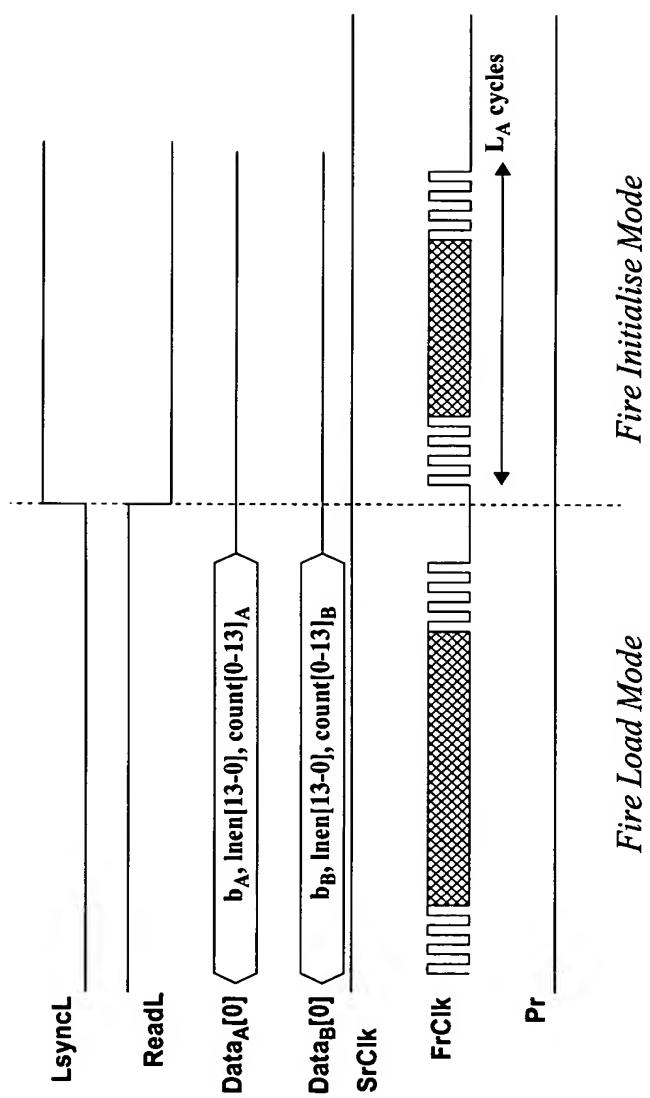


FIG. 318

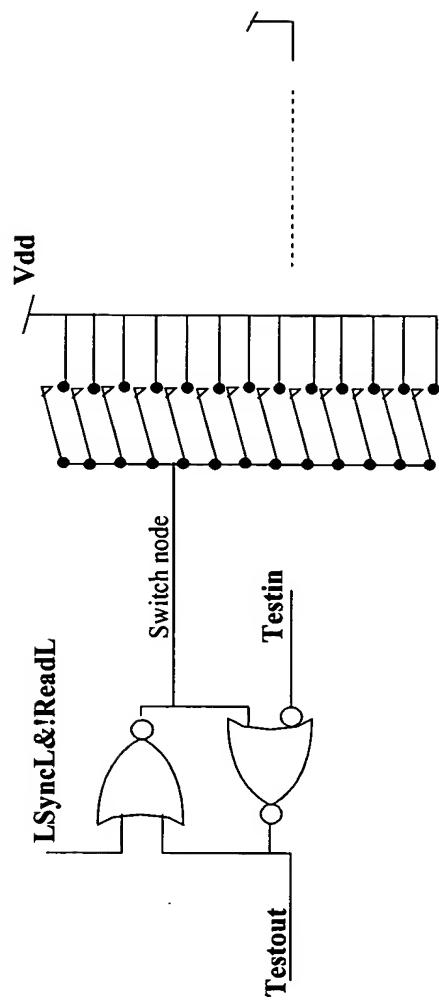


FIG. 319

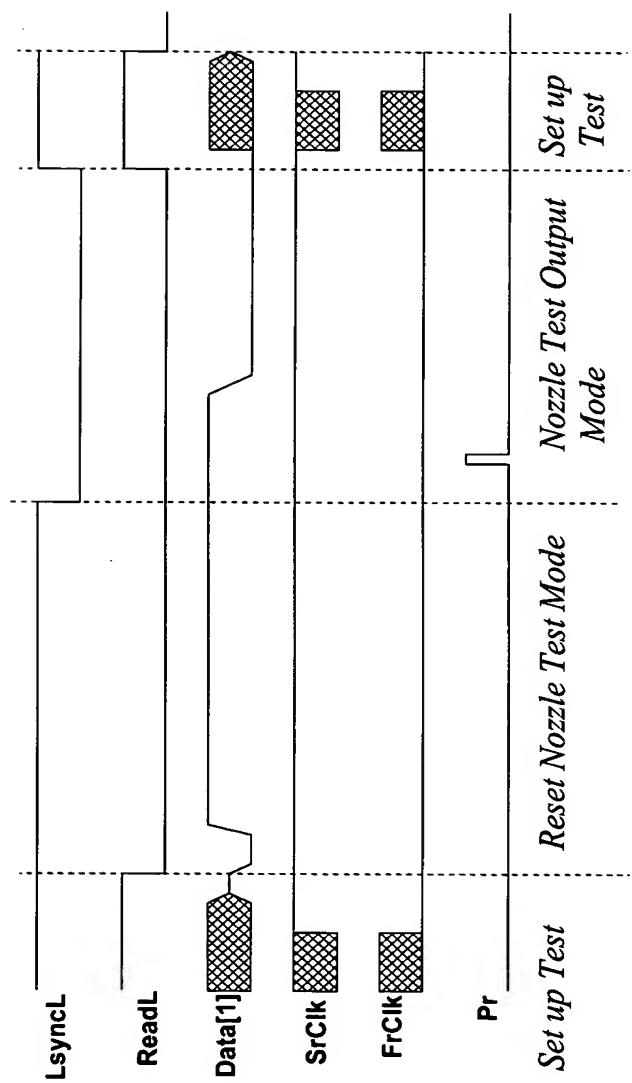


FIG. 320

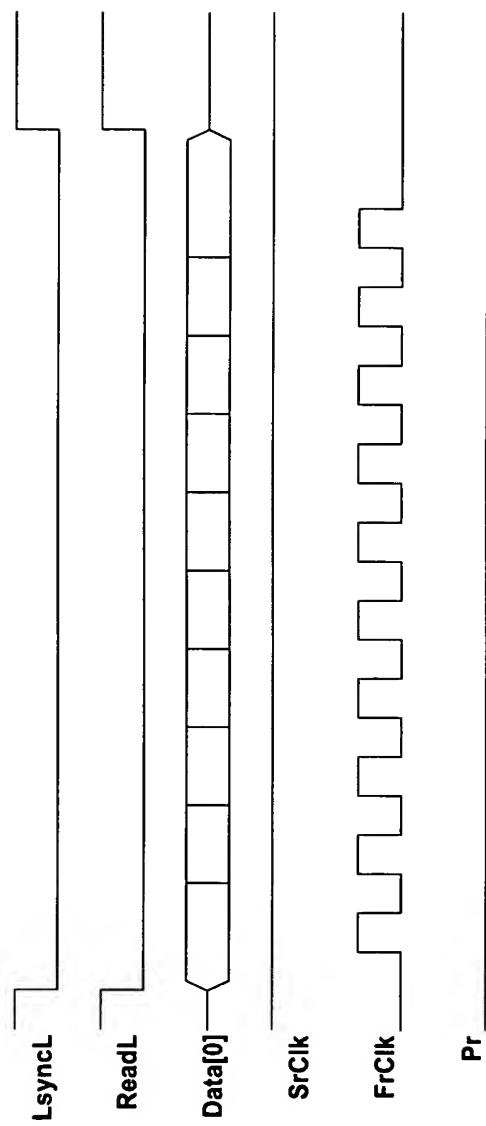


FIG. 321

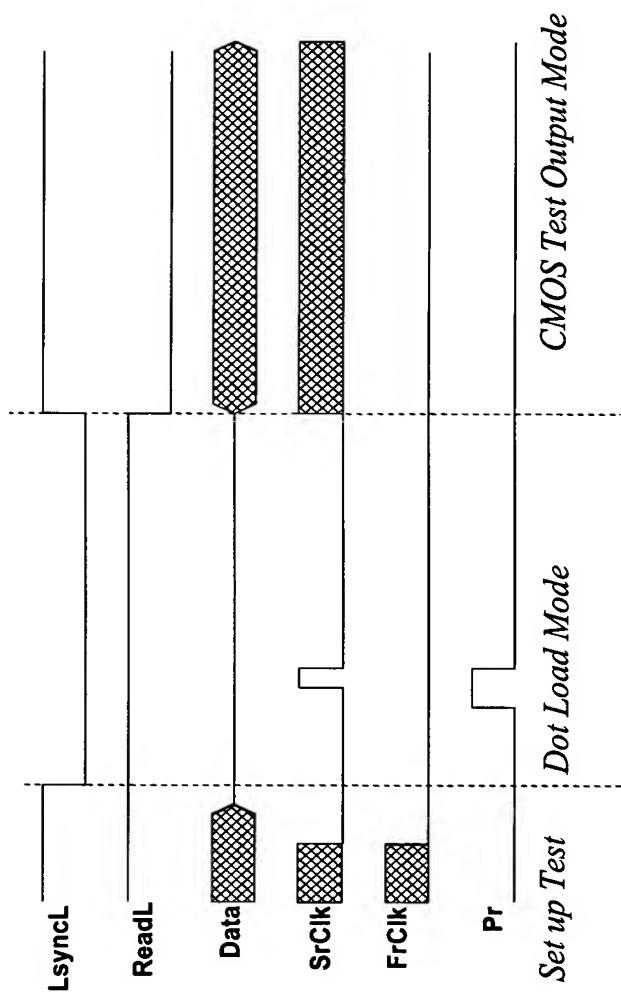


FIG. 322

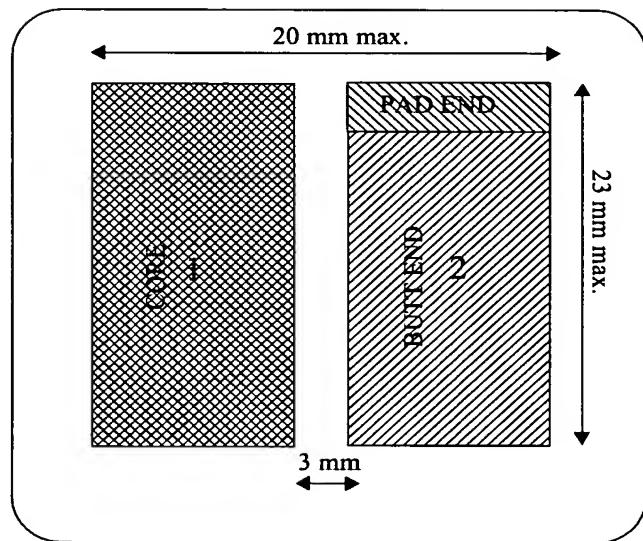


FIG. 323

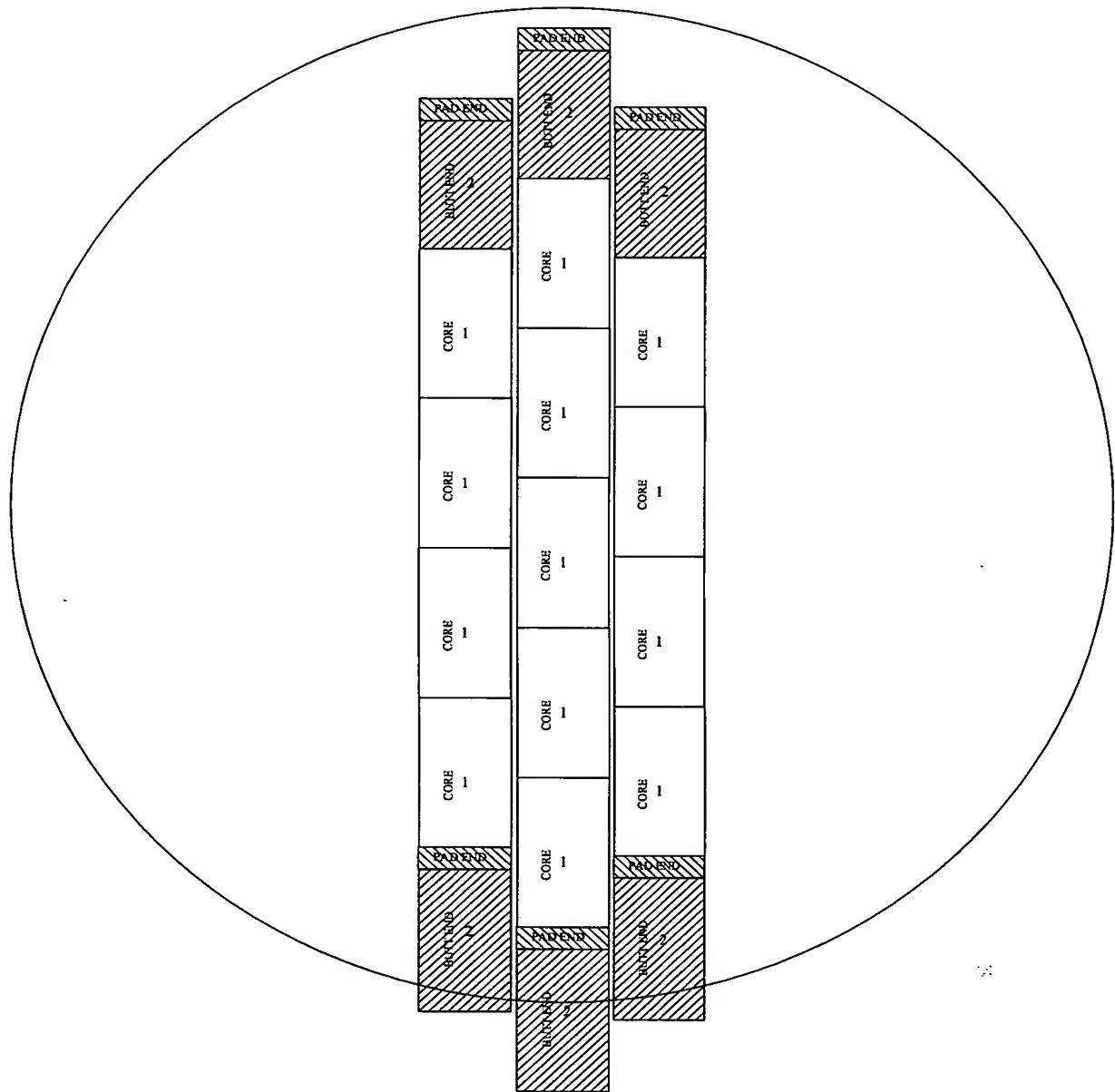


FIG. 324

FIG. 325

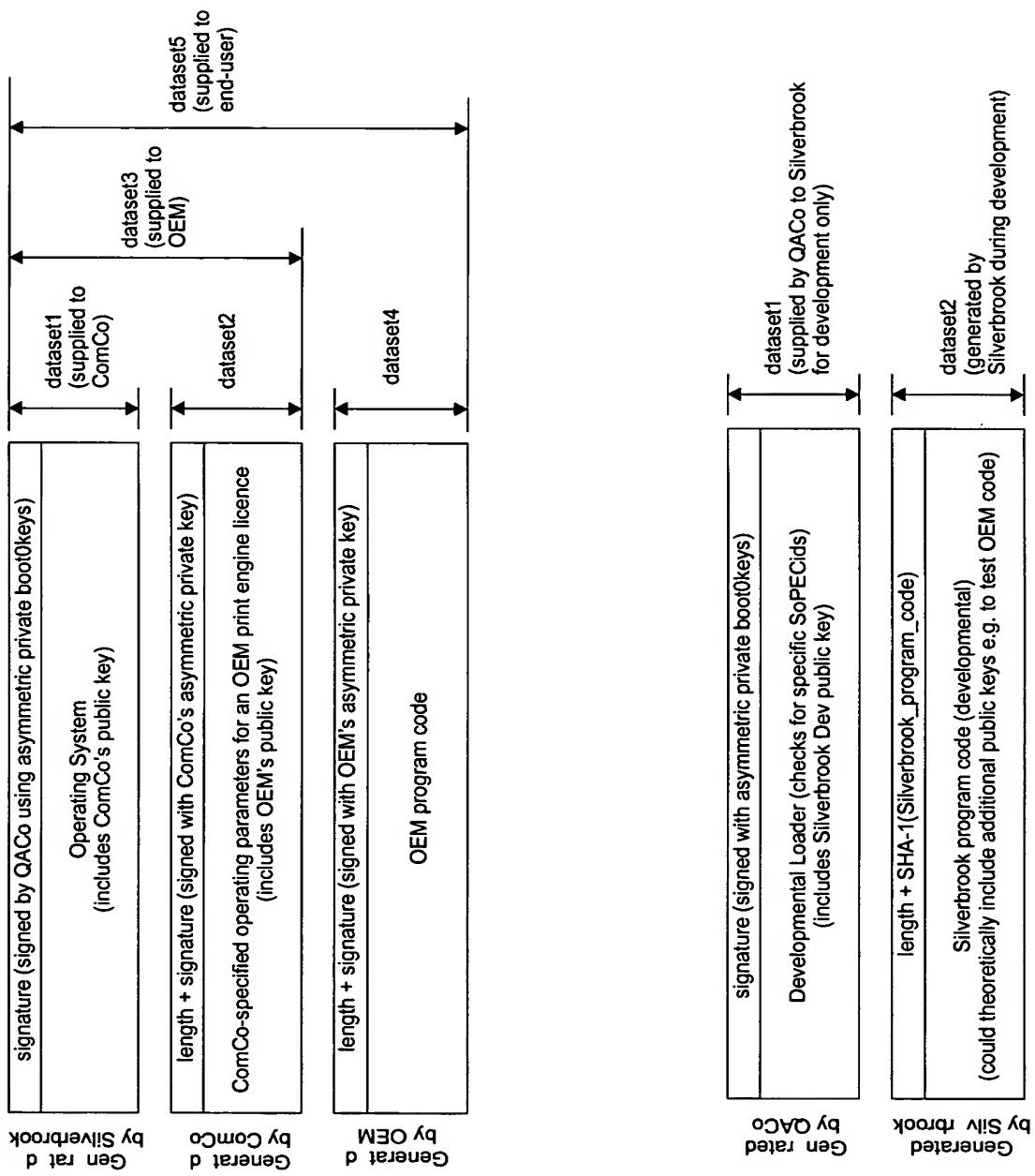


FIG. 327

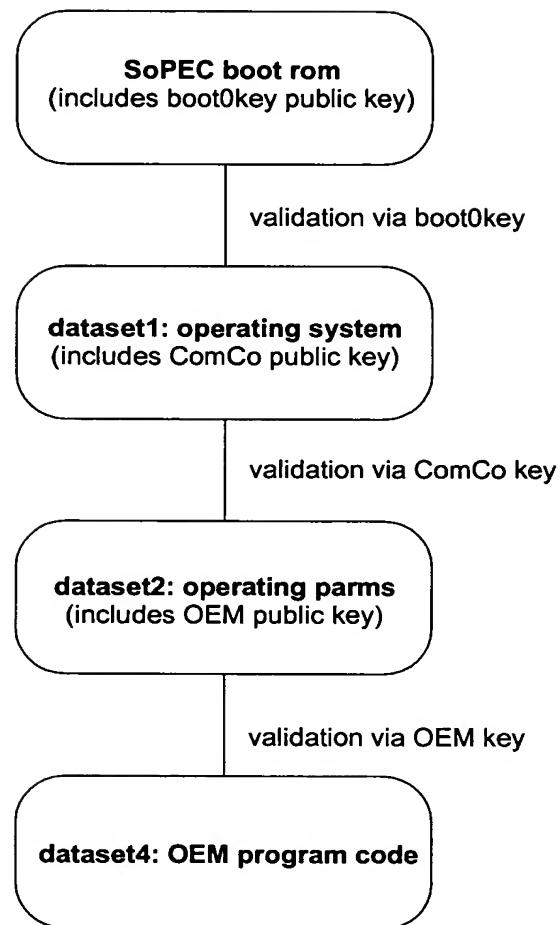


FIG. 326

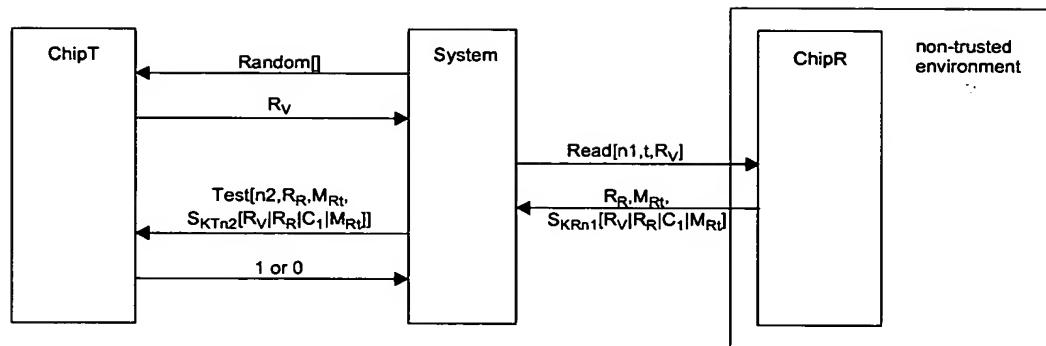


FIG. 328

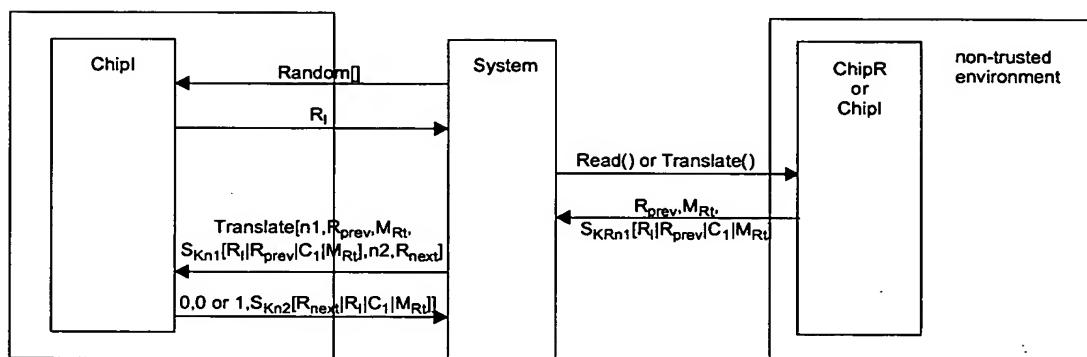


FIG. 329

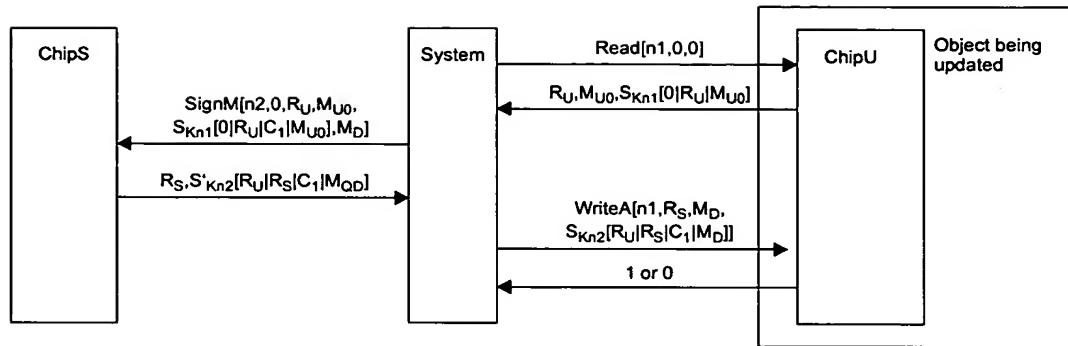


FIG. 330

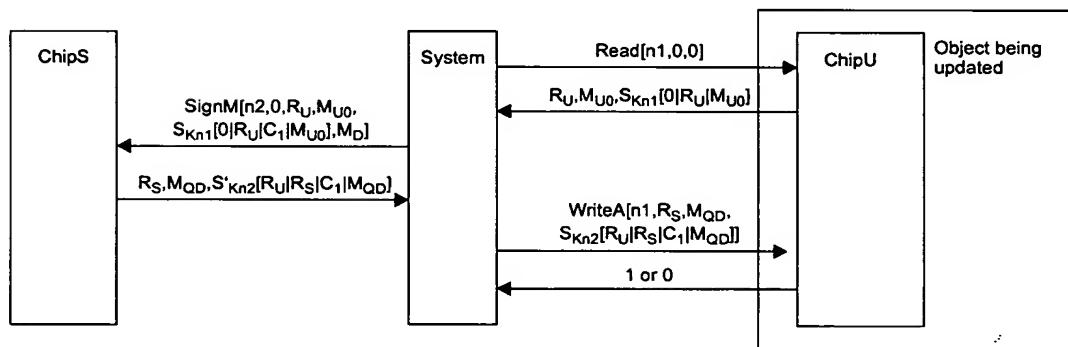


FIG. 331

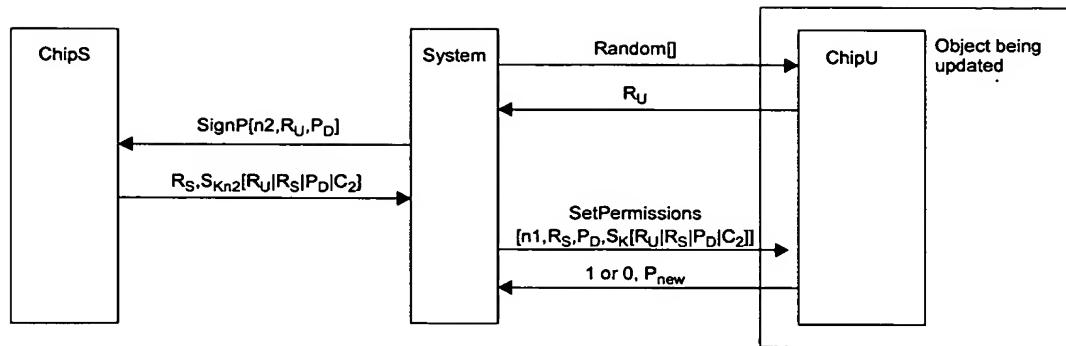


FIG. 332

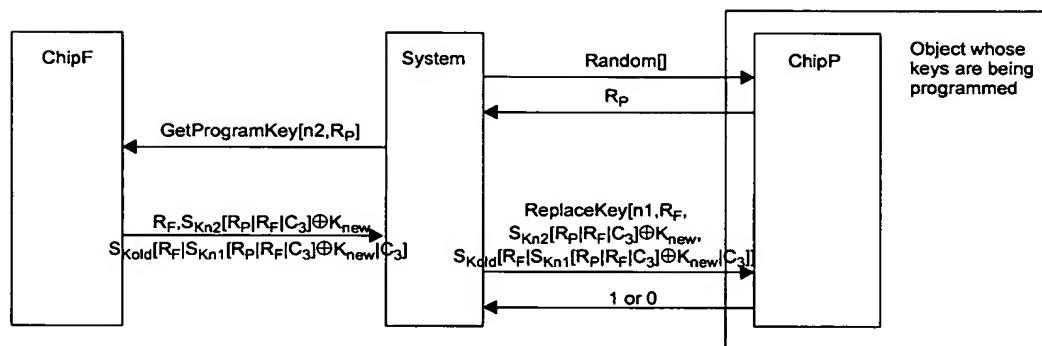


FIG. 333

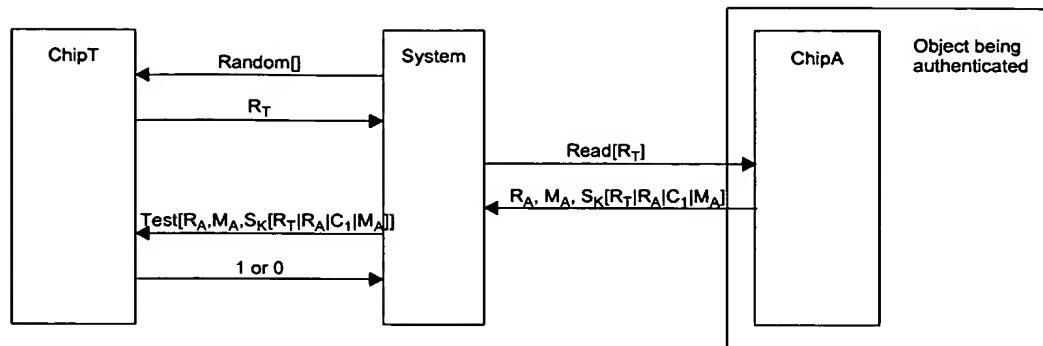


FIG. 334

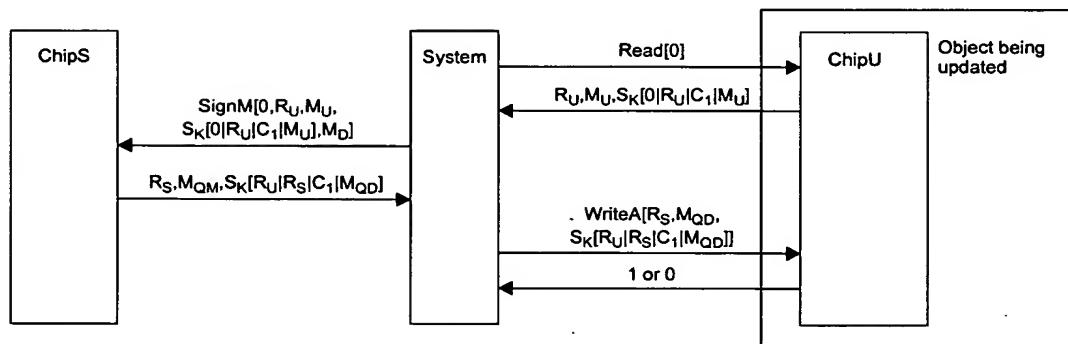


FIG. 335

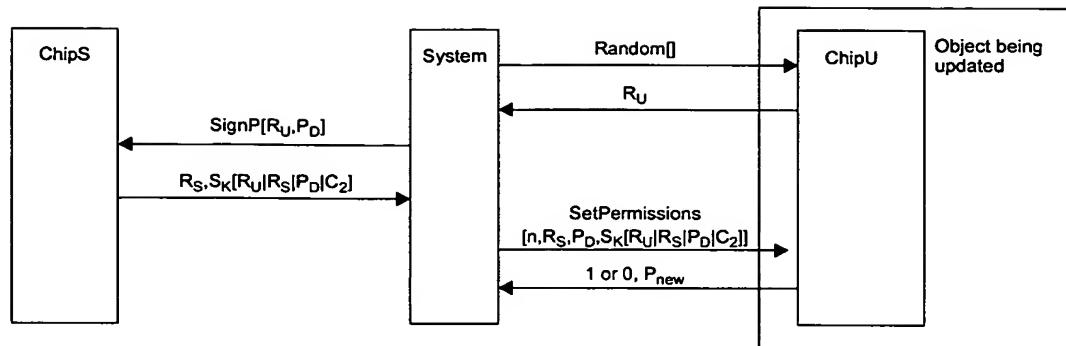


FIG. 336

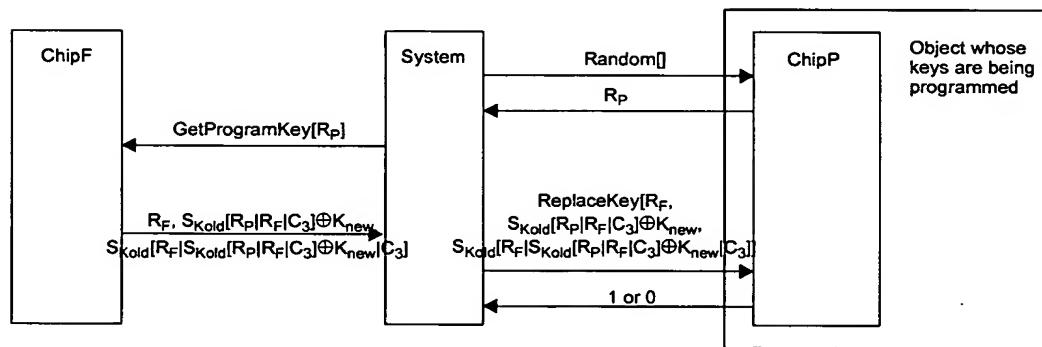


FIG. 337

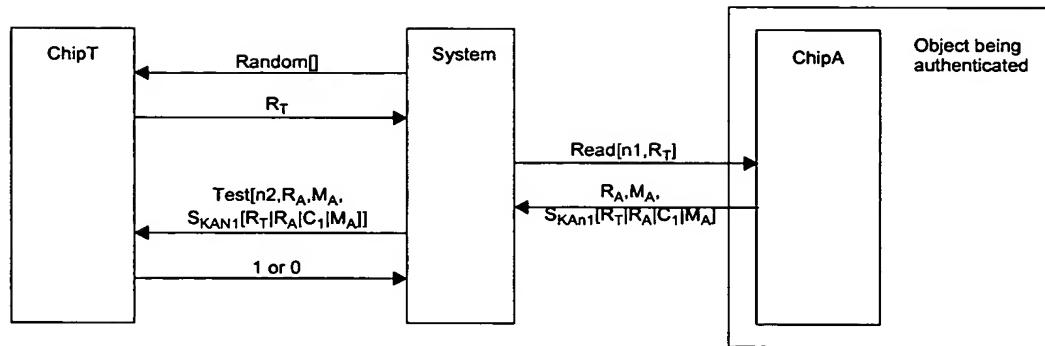


FIG. 338

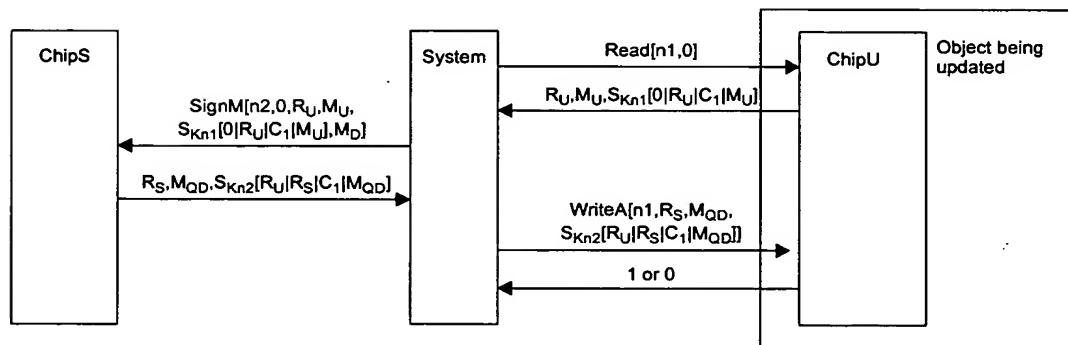


FIG. 339

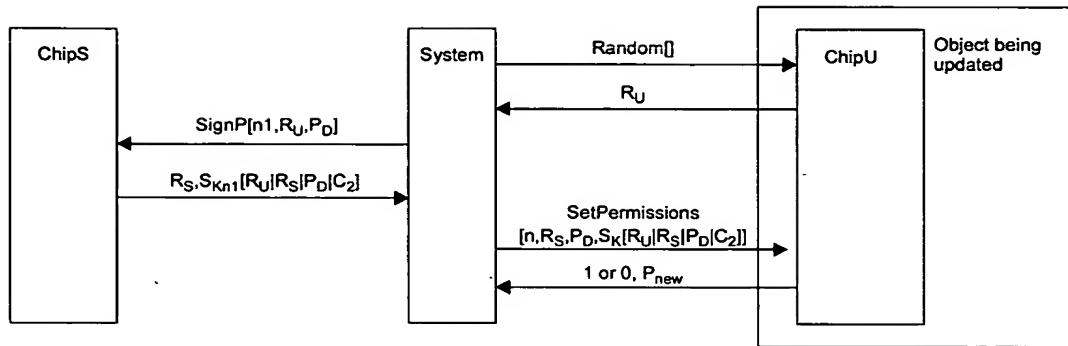


FIG. 340

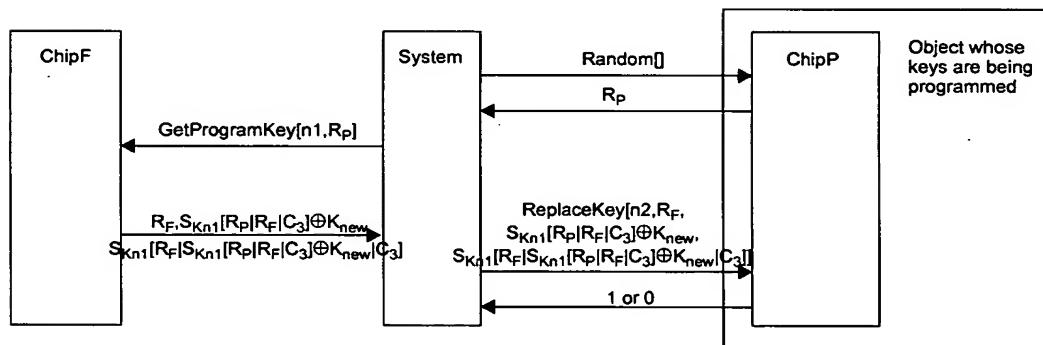


FIG. 341

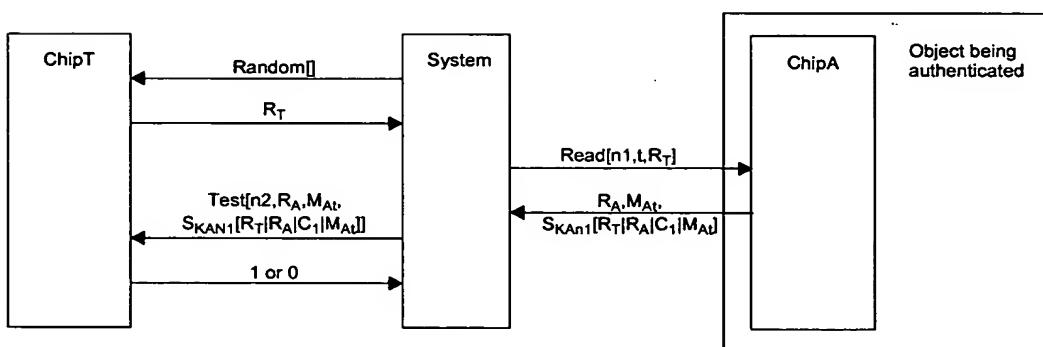


FIG. 342

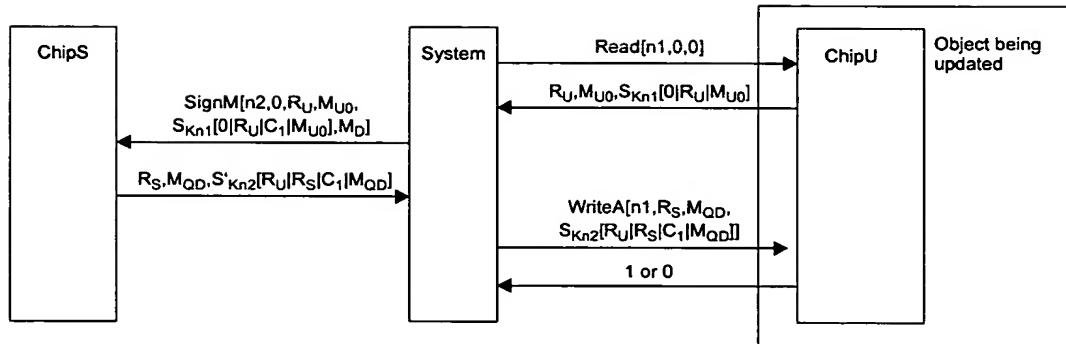


FIG. 343

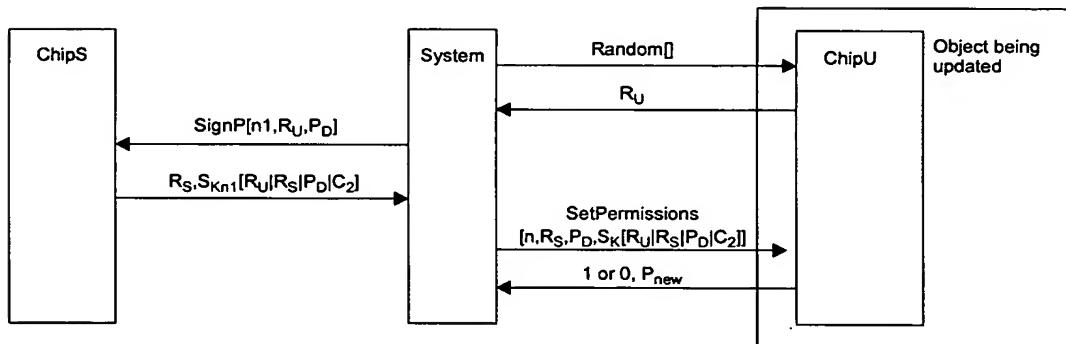


FIG. 344

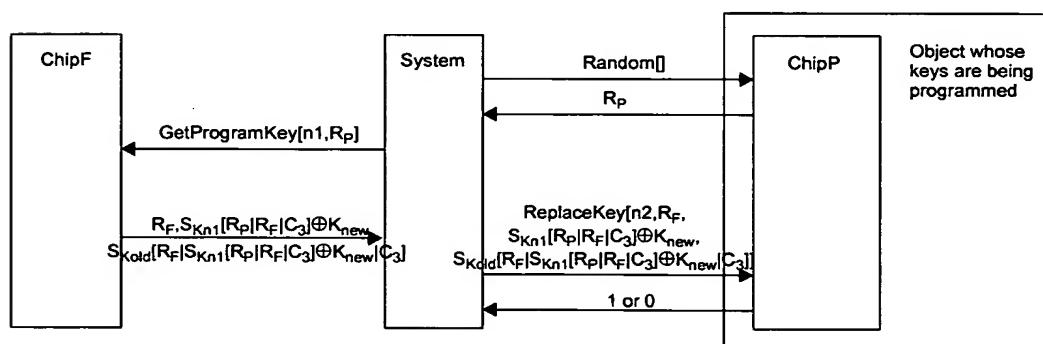


FIG. 345

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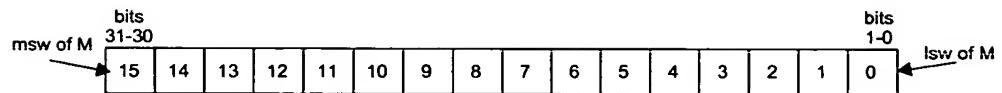


FIG. 346

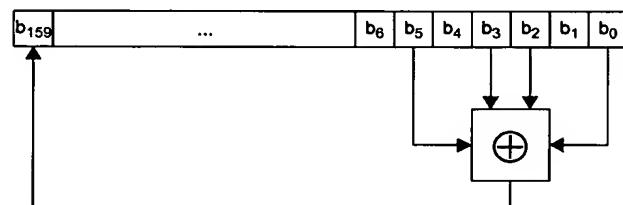


FIG. 347

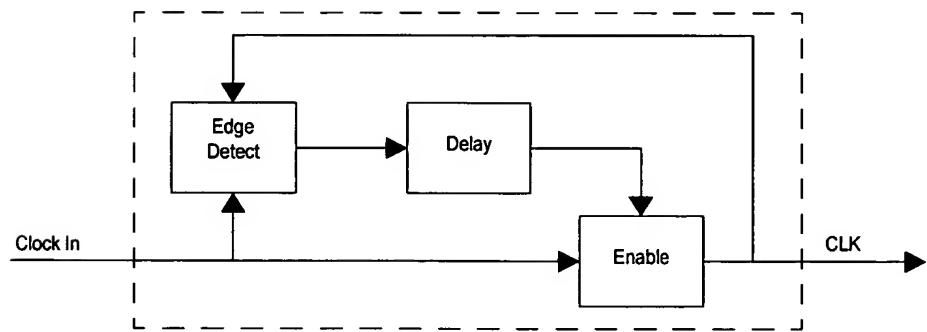


FIG. 348

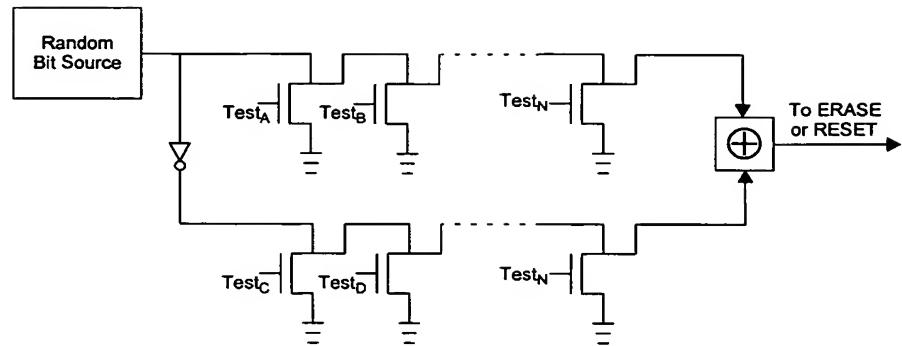


FIG. 349

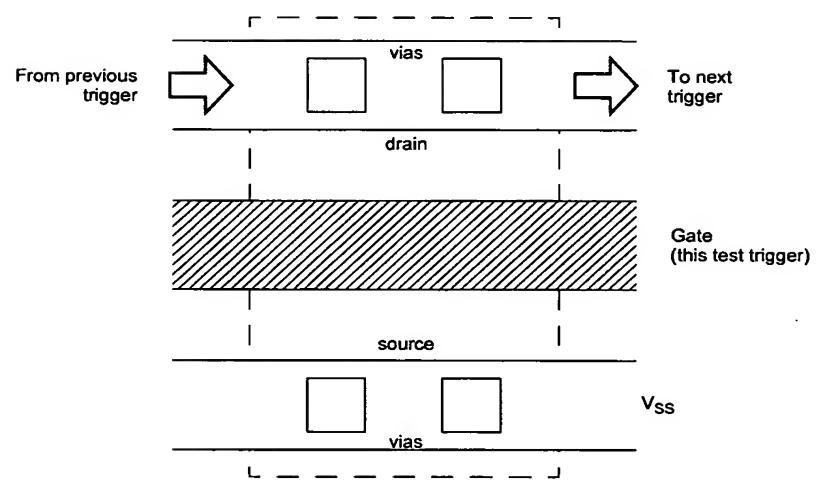


FIG. 350

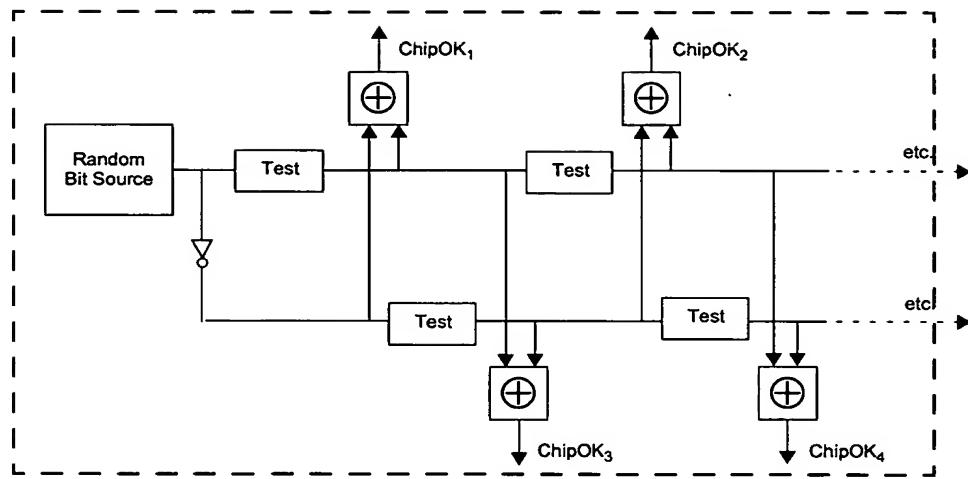


FIG. 351

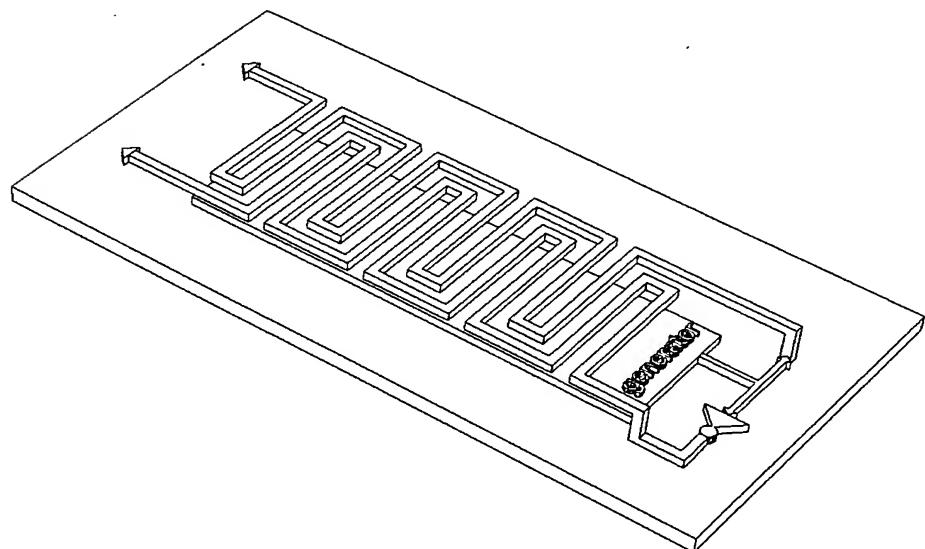


FIG. 352

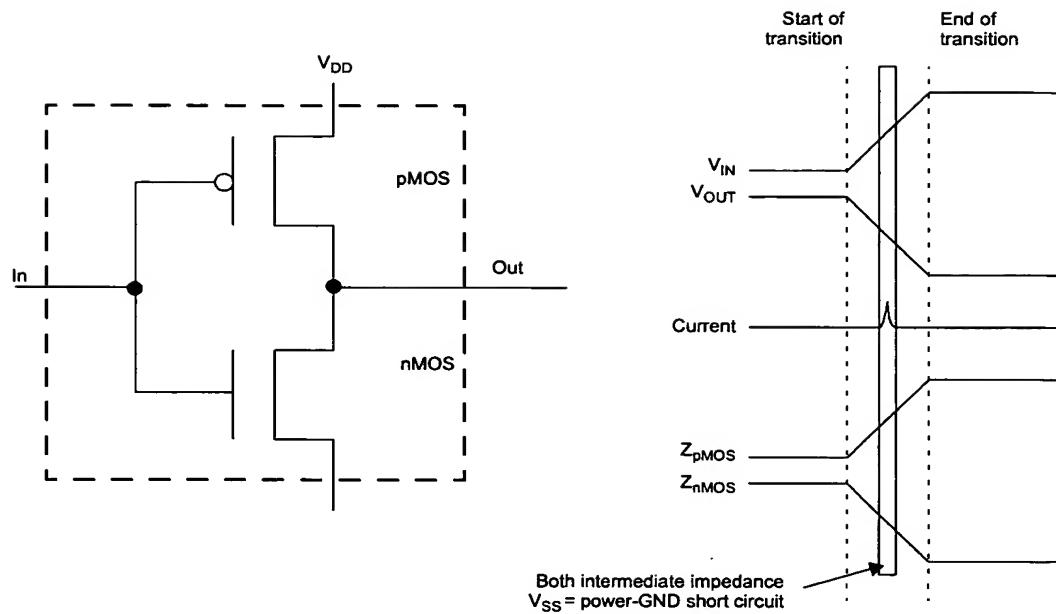


FIG. 353

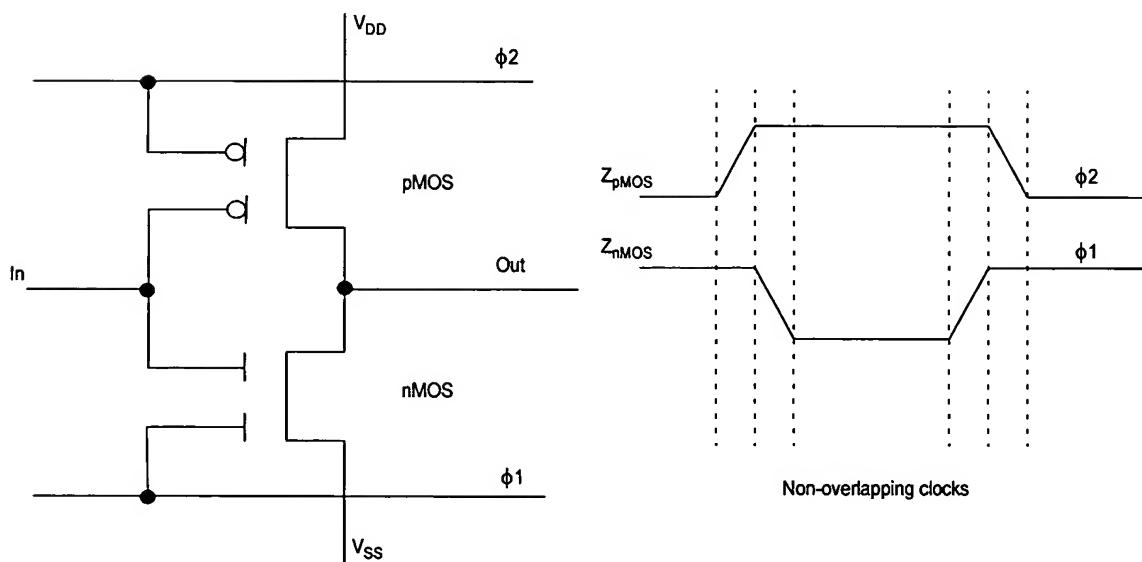


FIG. 354

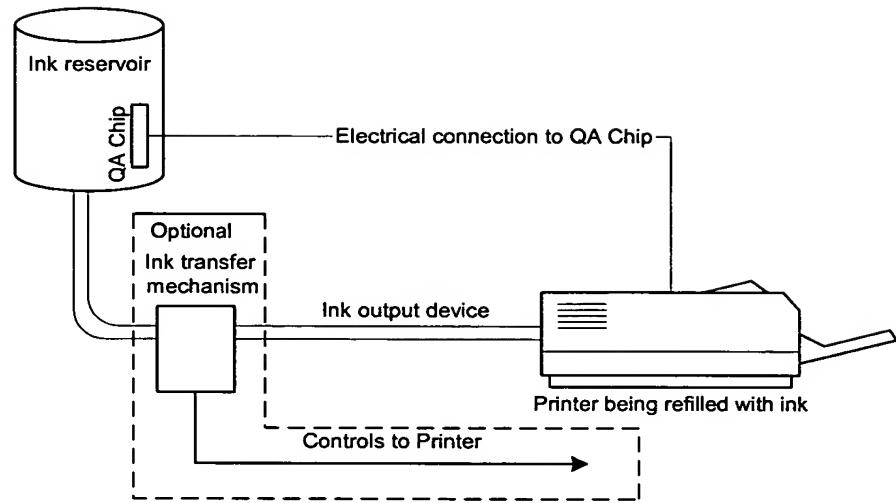


FIG. 355

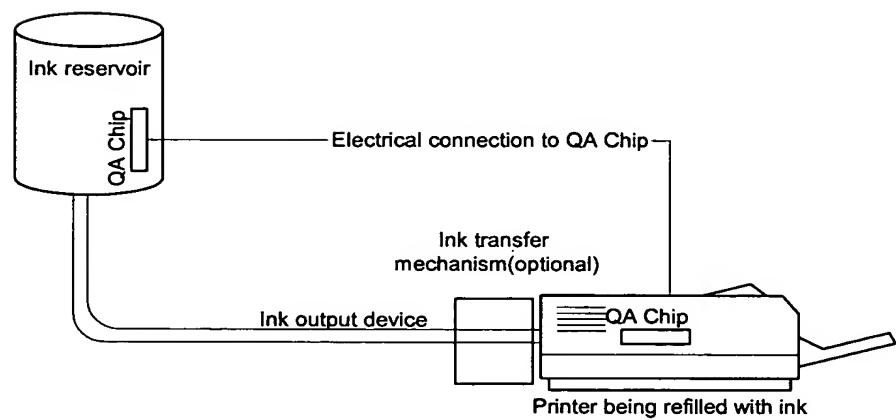


FIG. 356

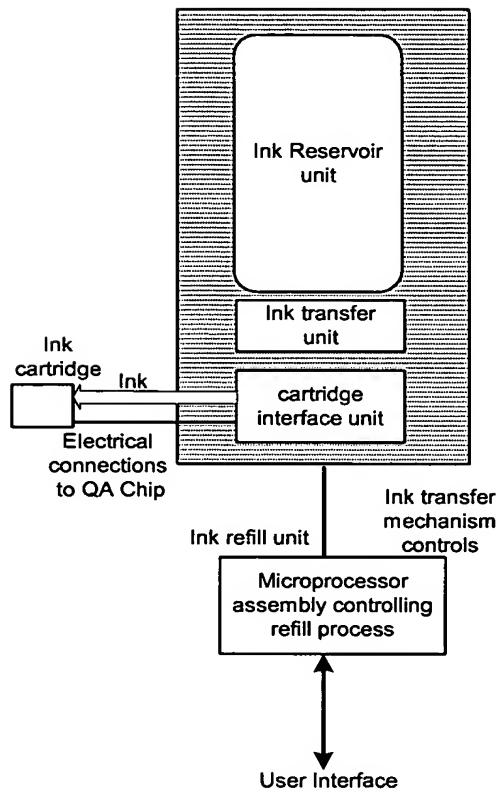


FIG. 357

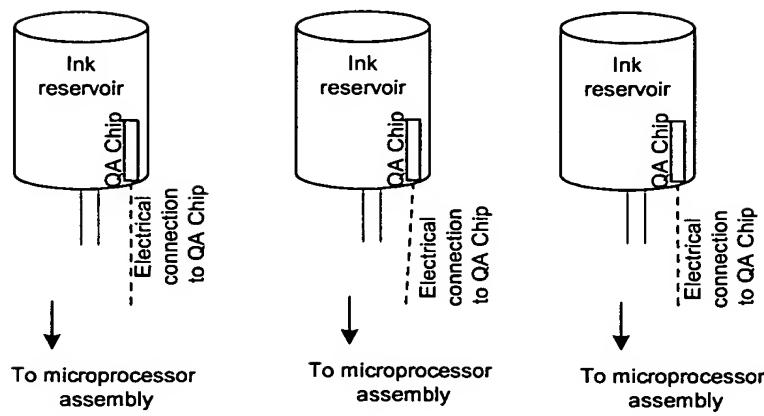


FIG. 358

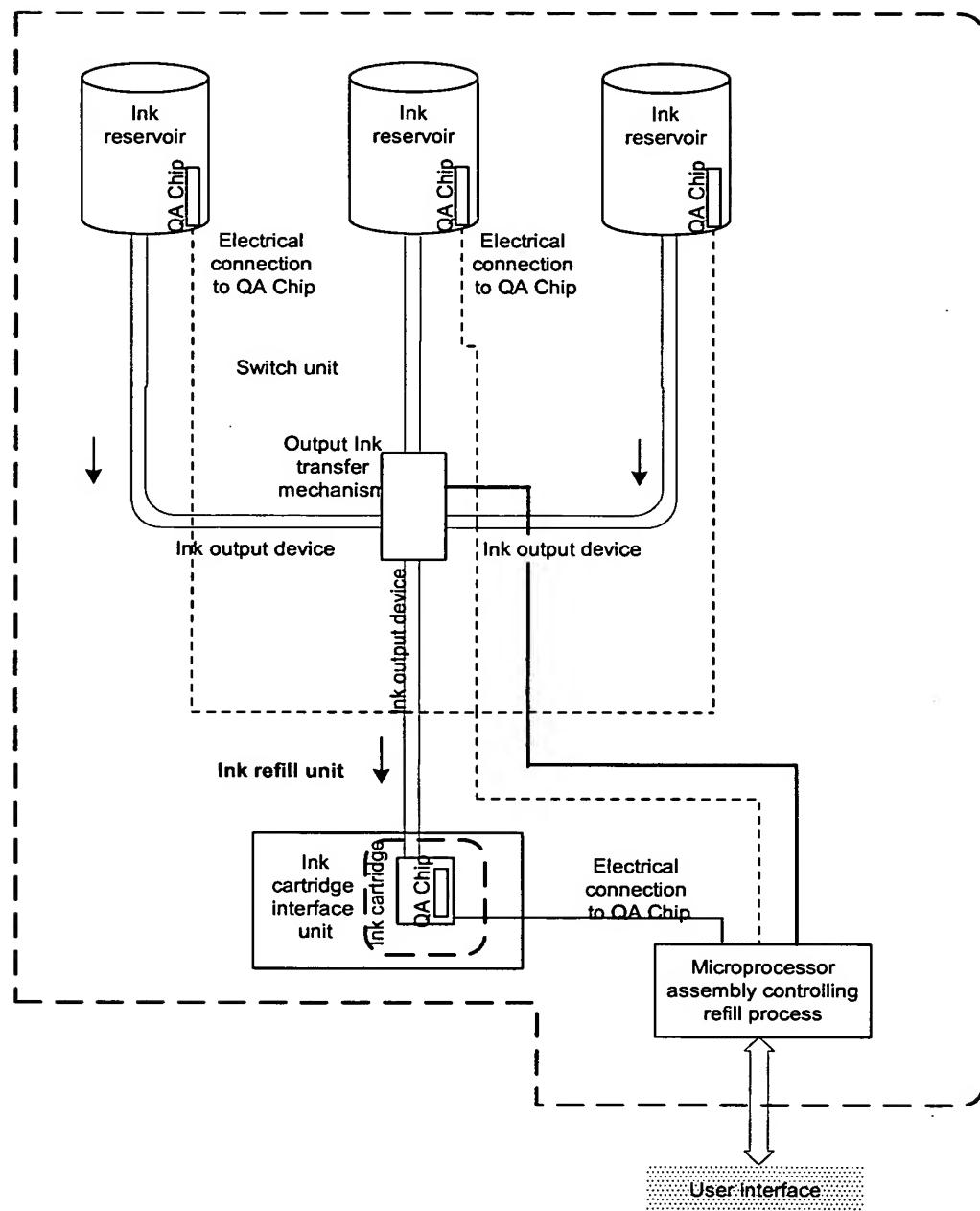


FIG. 359

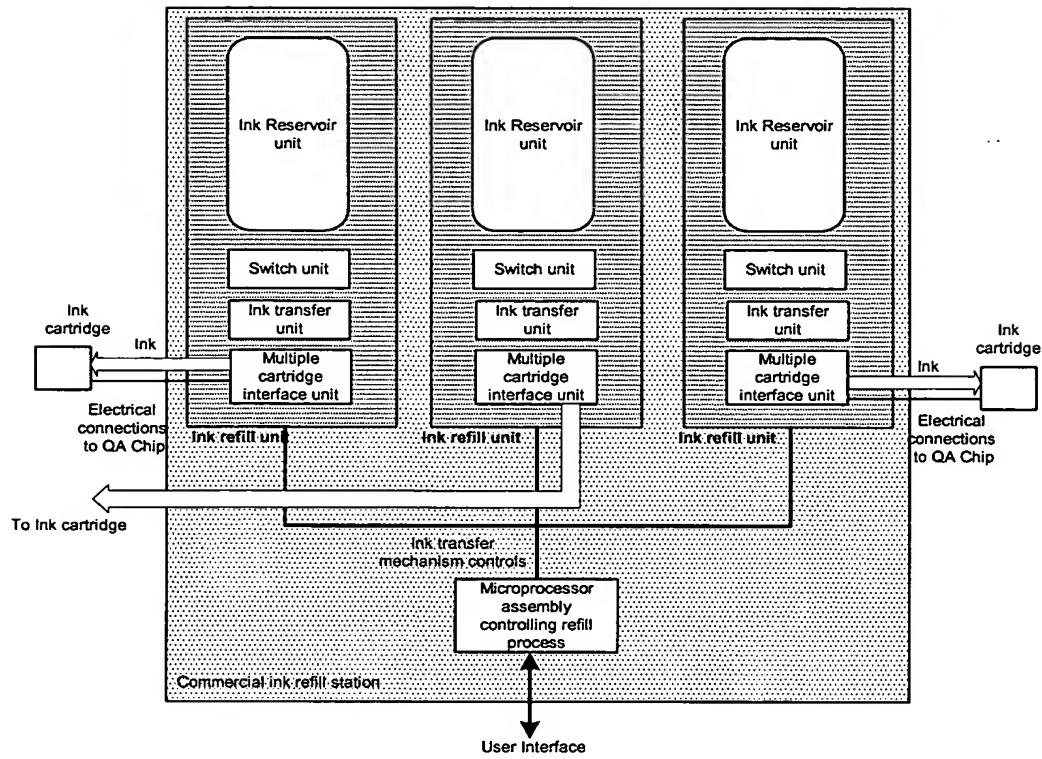


FIG. 360

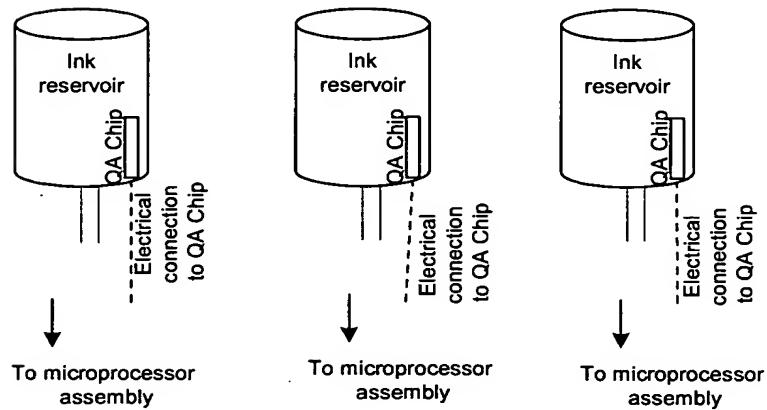


FIG. 361

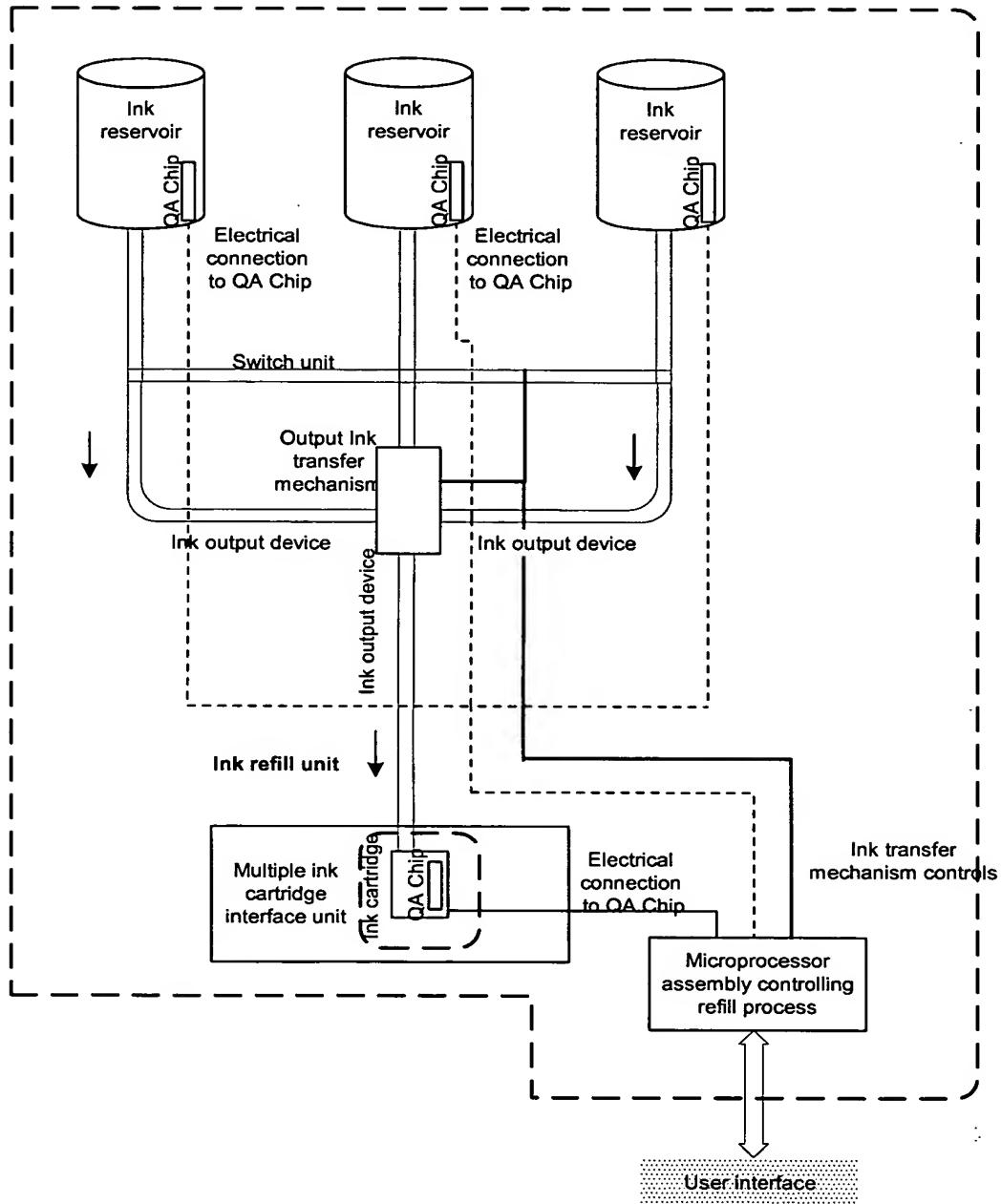


FIG. 362

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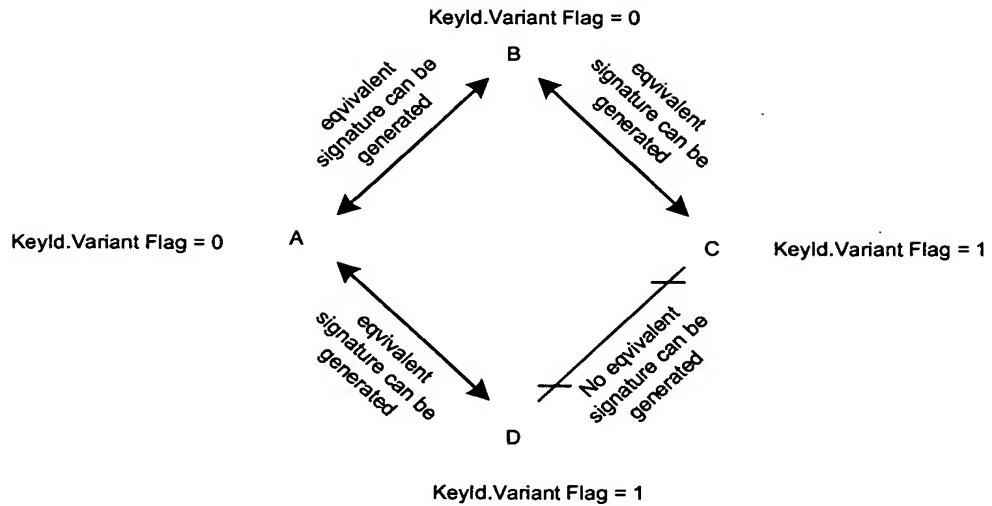


FIG. 363

31	17 16		4 3	0
Type (15 bits)		Permissions (13 bits)		Size and Position (4 bits)

FIG. 364

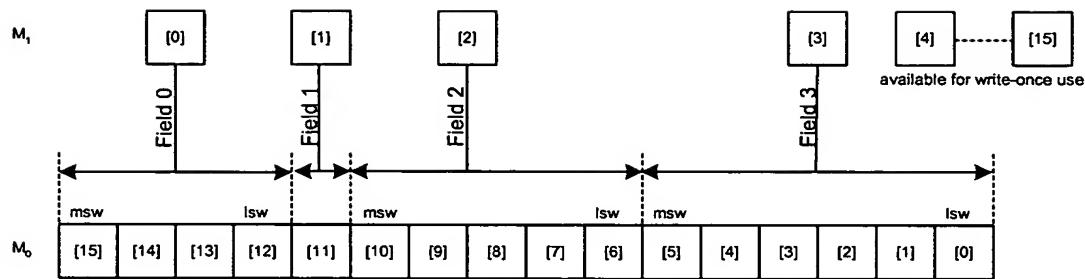


FIG. 365

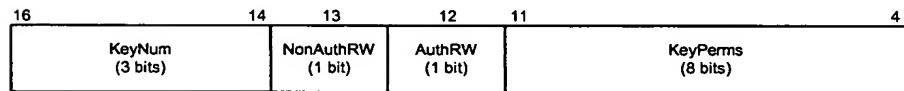


FIG. 366

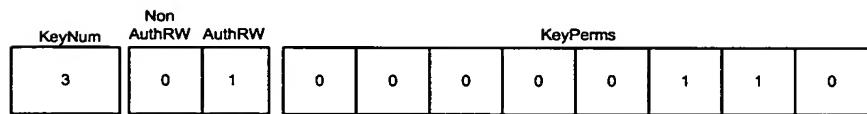


FIG. 367

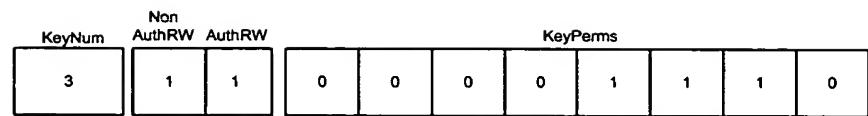


FIG. 368

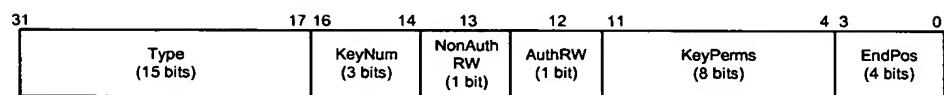


FIG. 369

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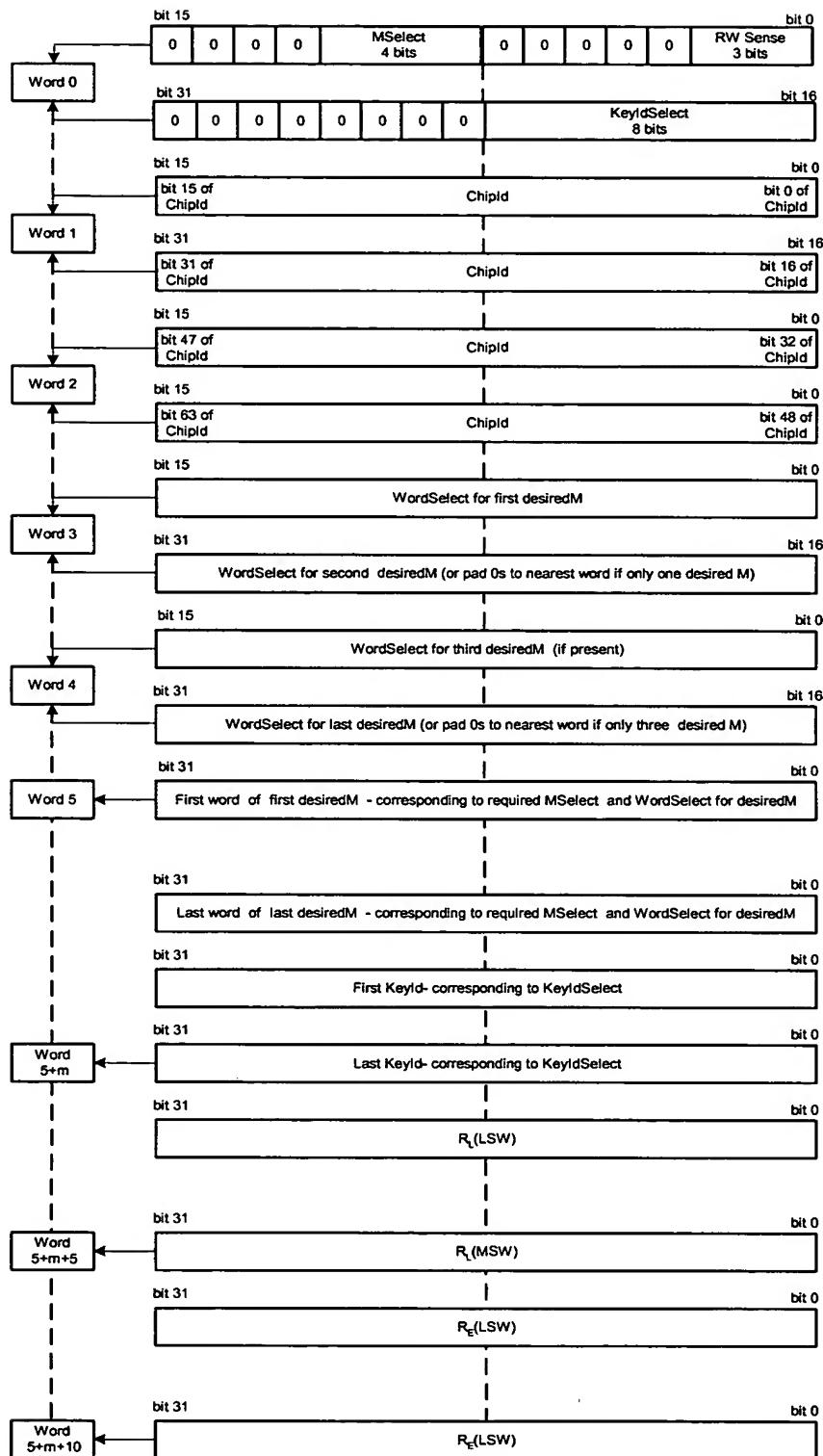


FIG. 370

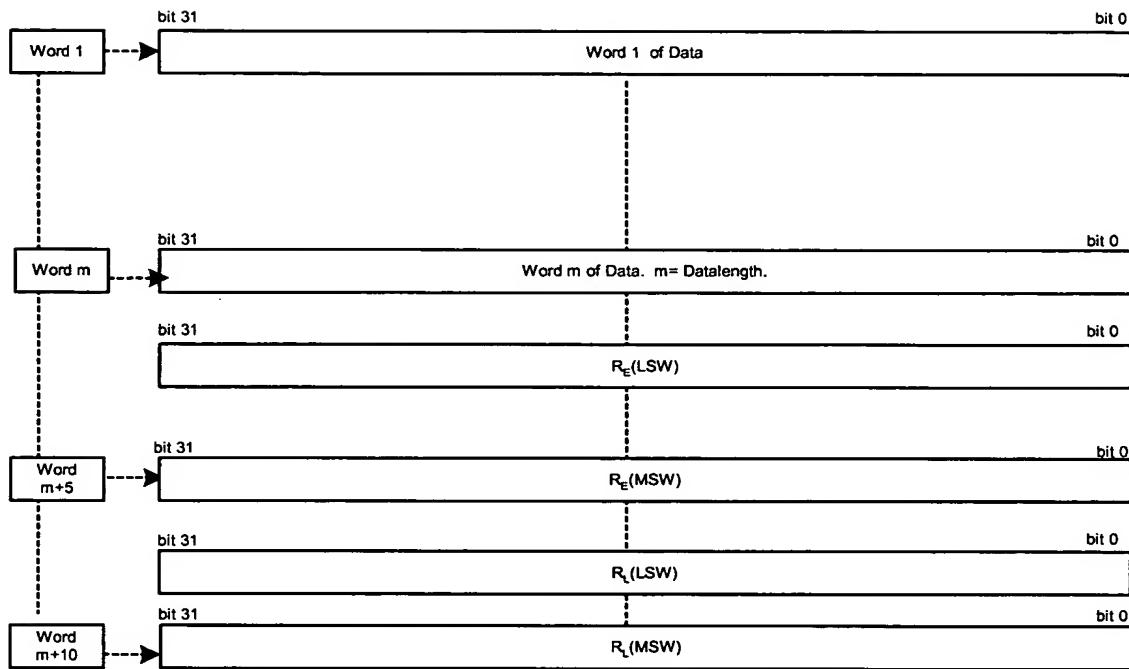


FIG. 371

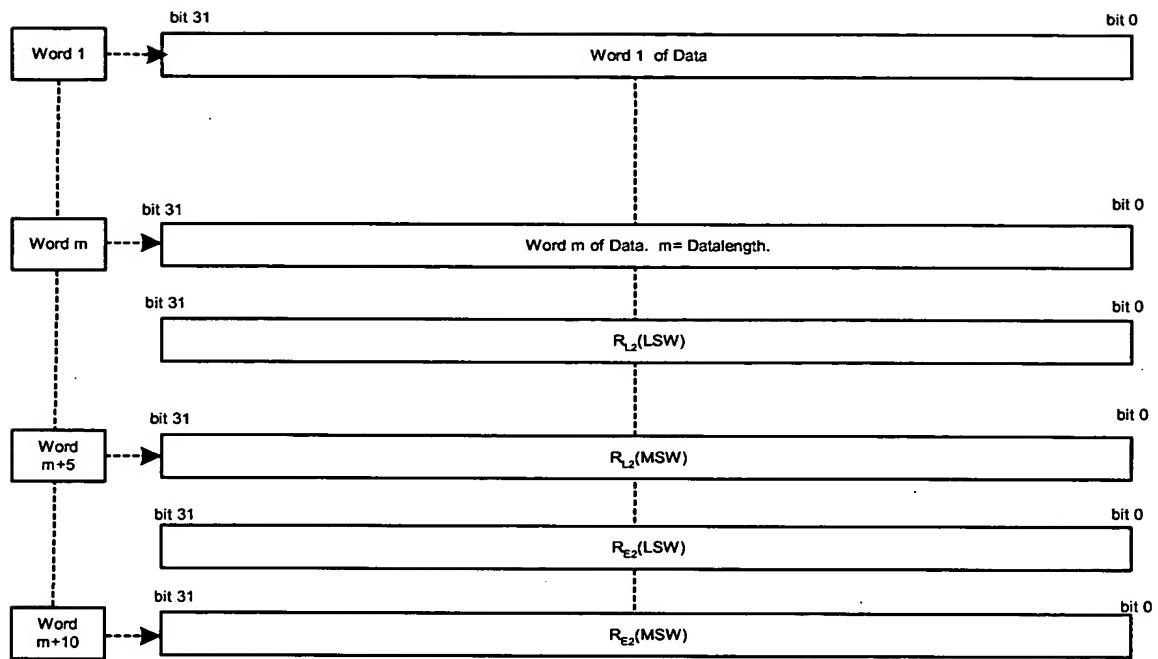


FIG. 372

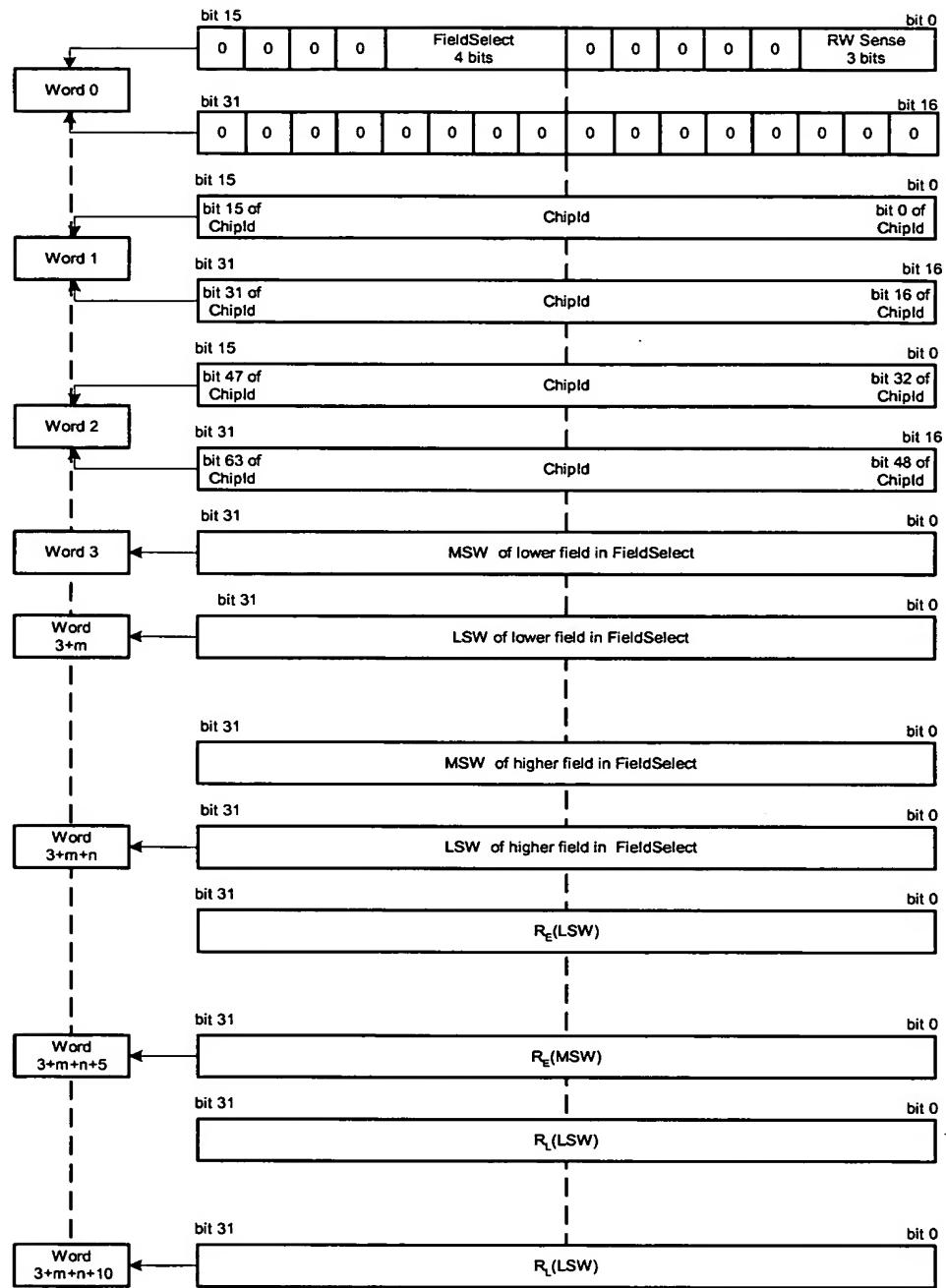


FIG. 373

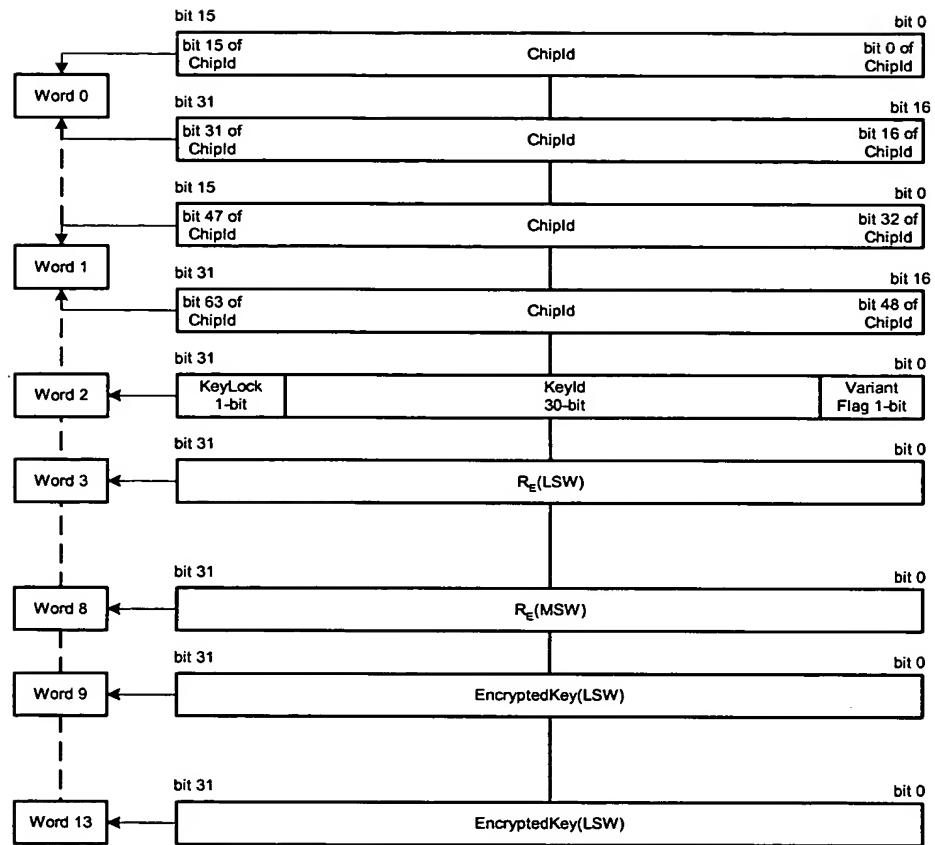


FIG. 374

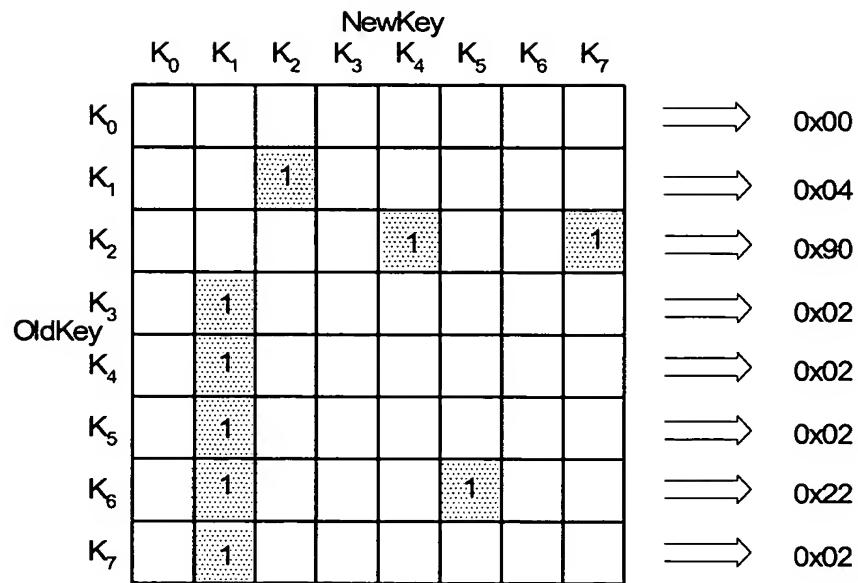


FIG. 375

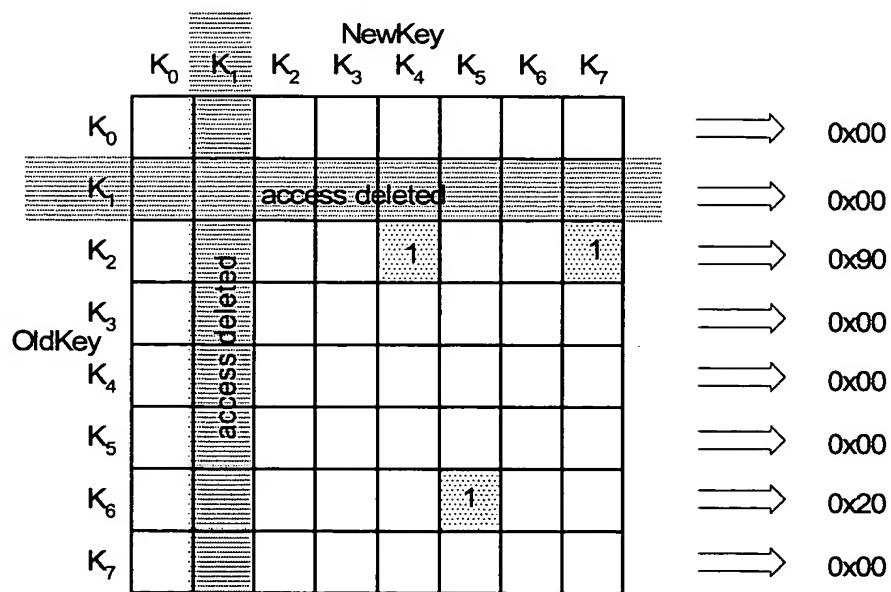


FIG. 376

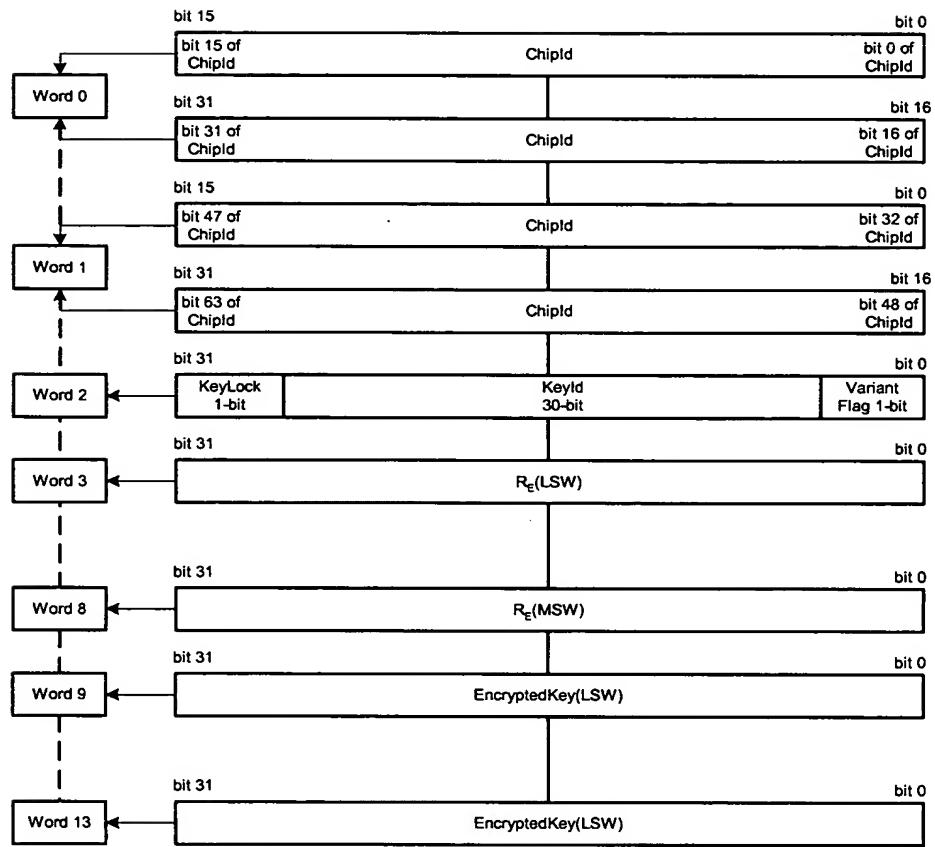


FIG. 377

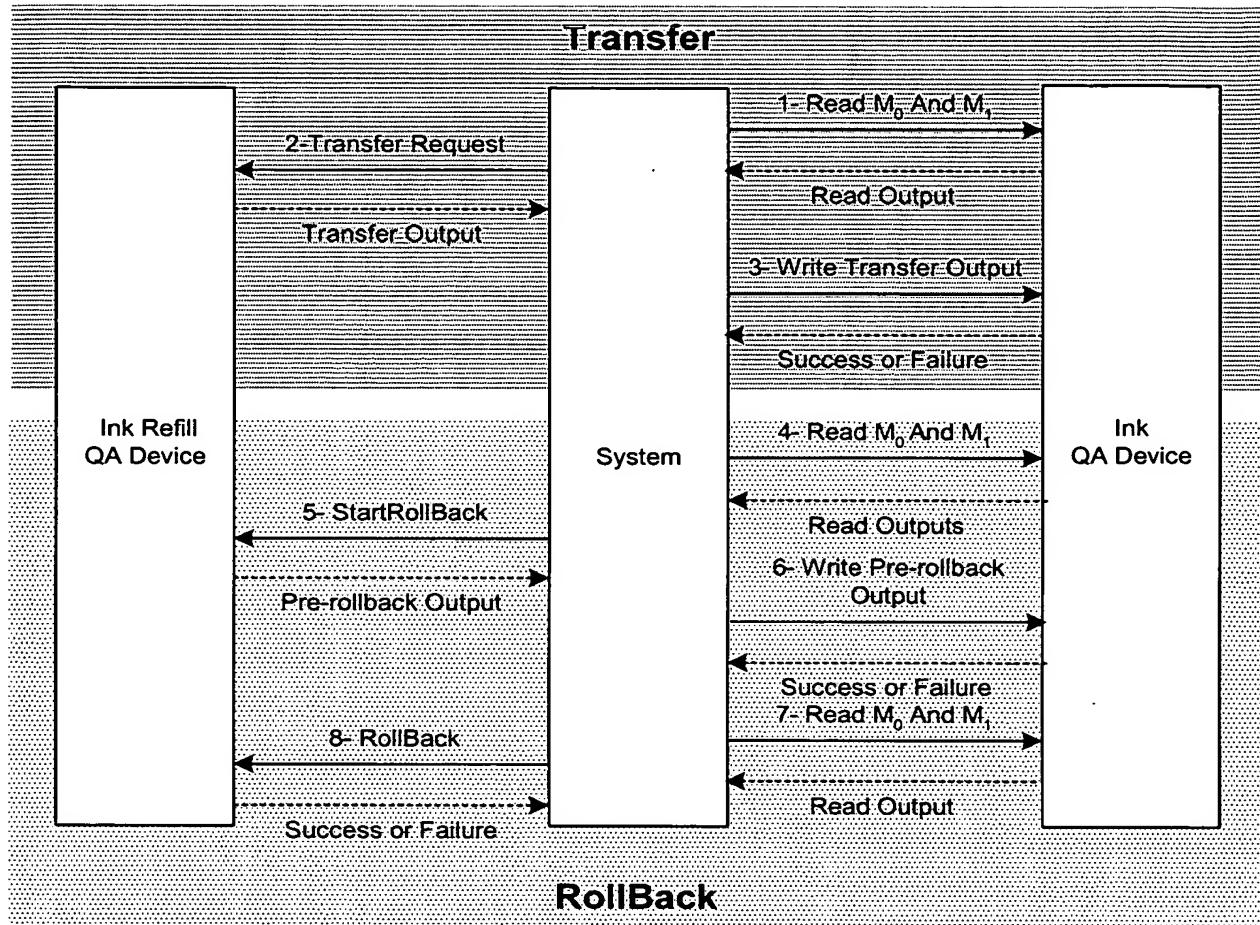


FIG. 378

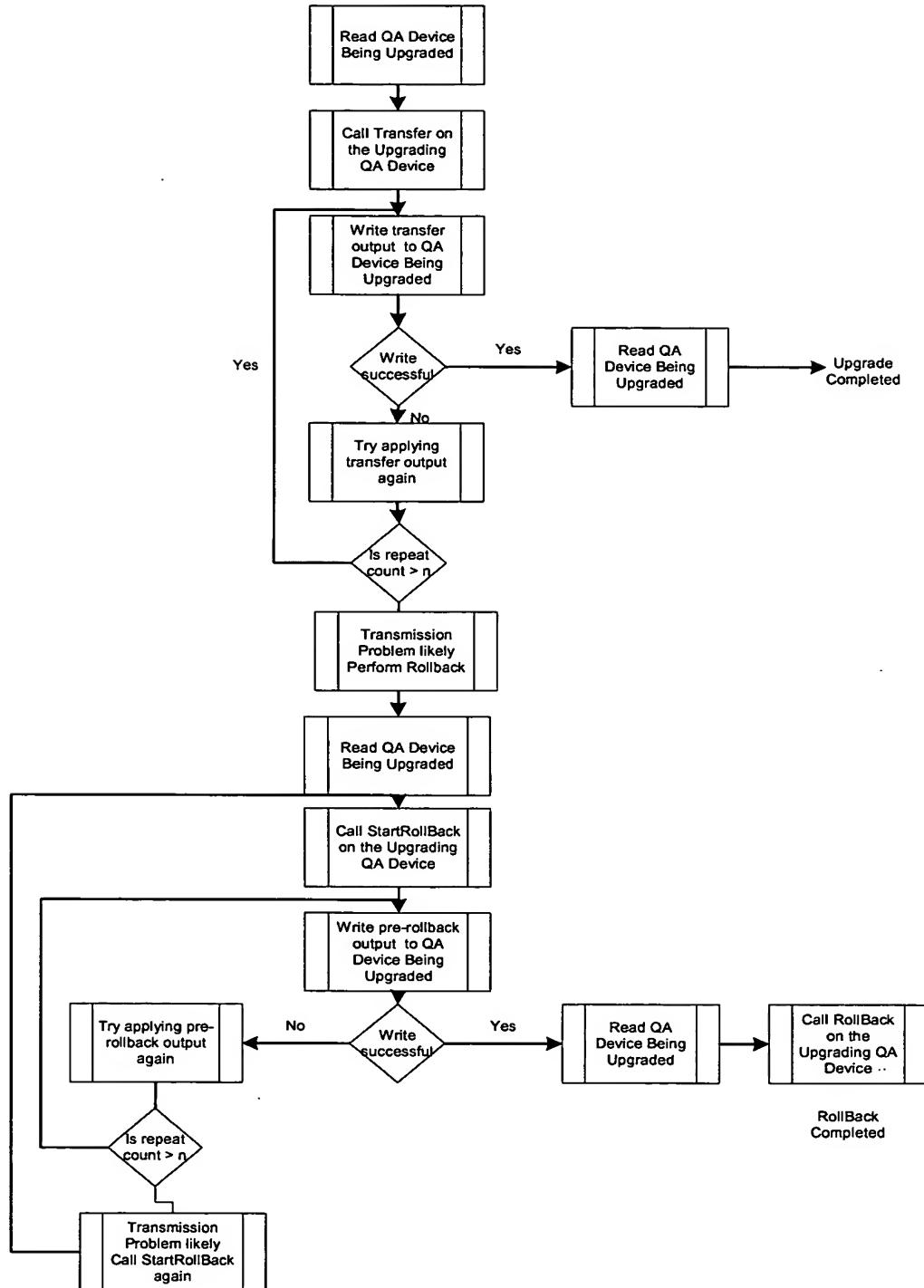


FIG. 379

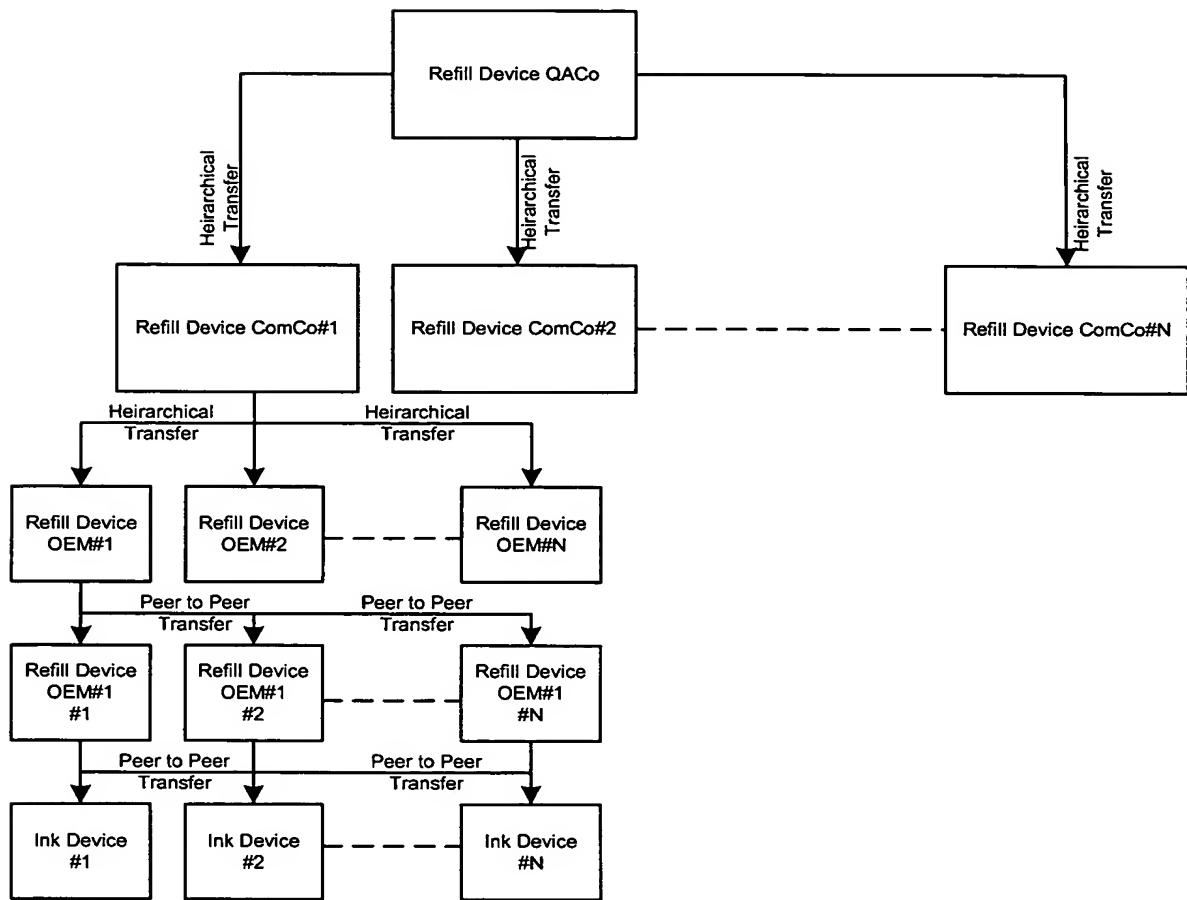


FIG. 380

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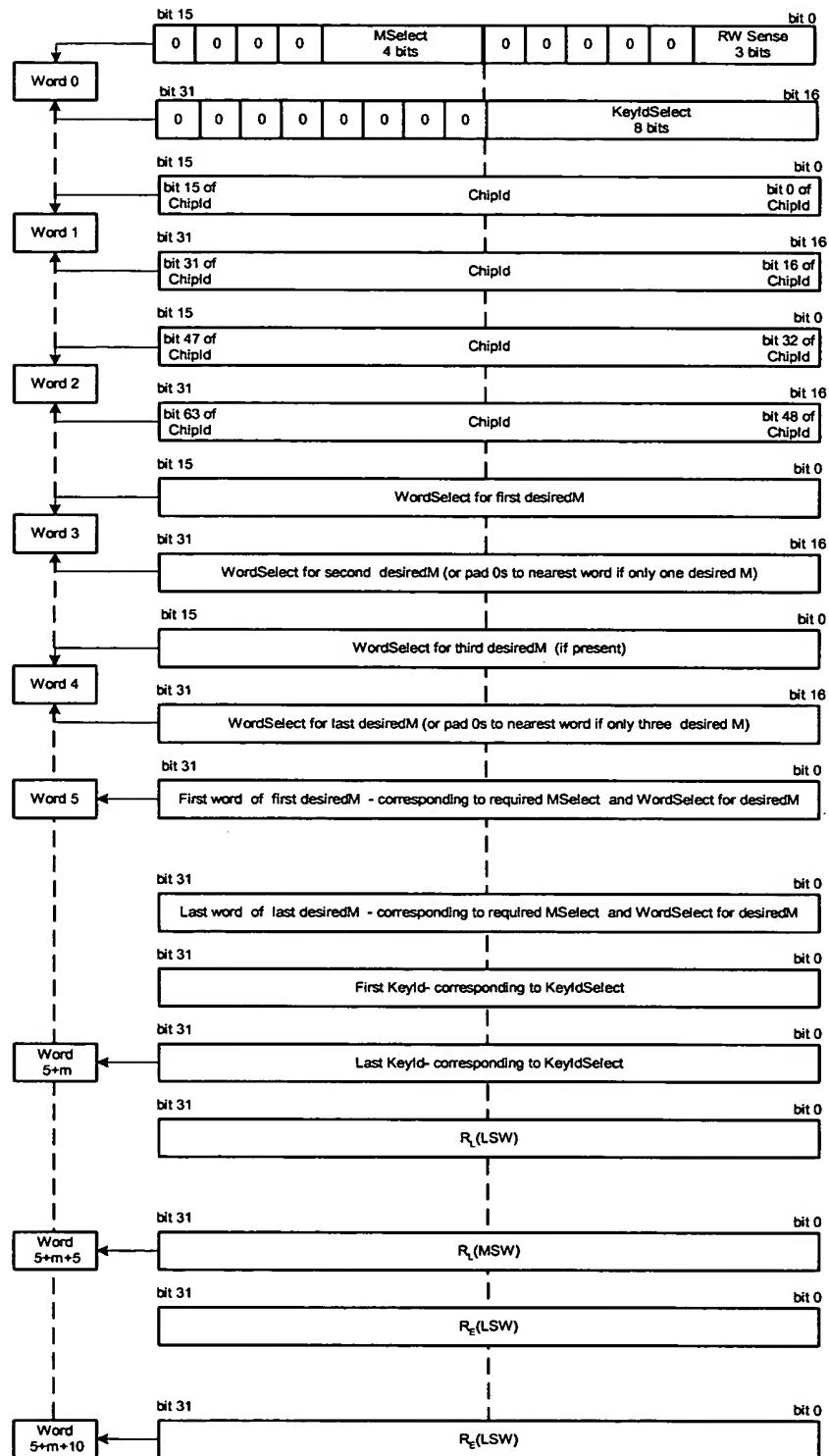


FIG. 381

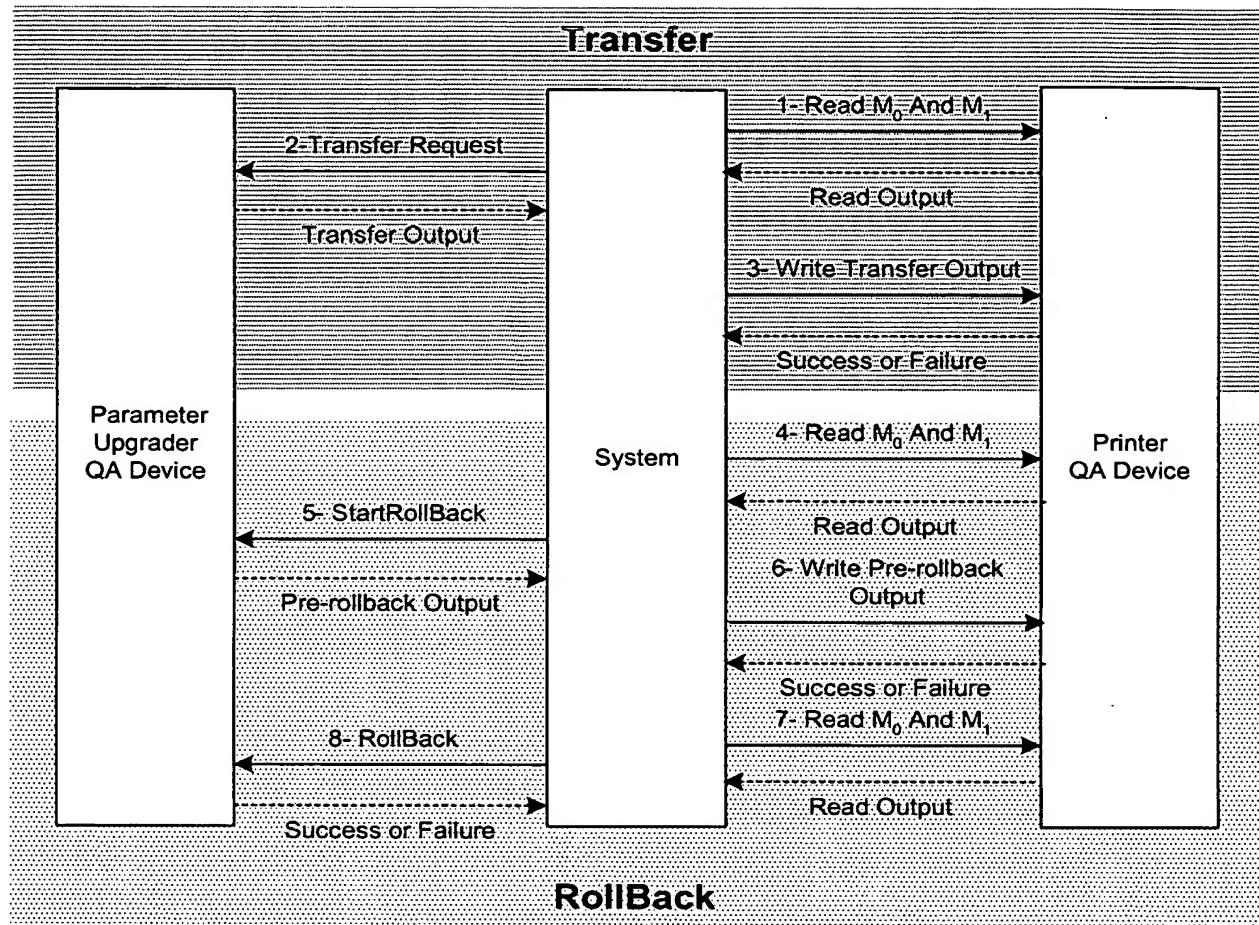


FIG. 382

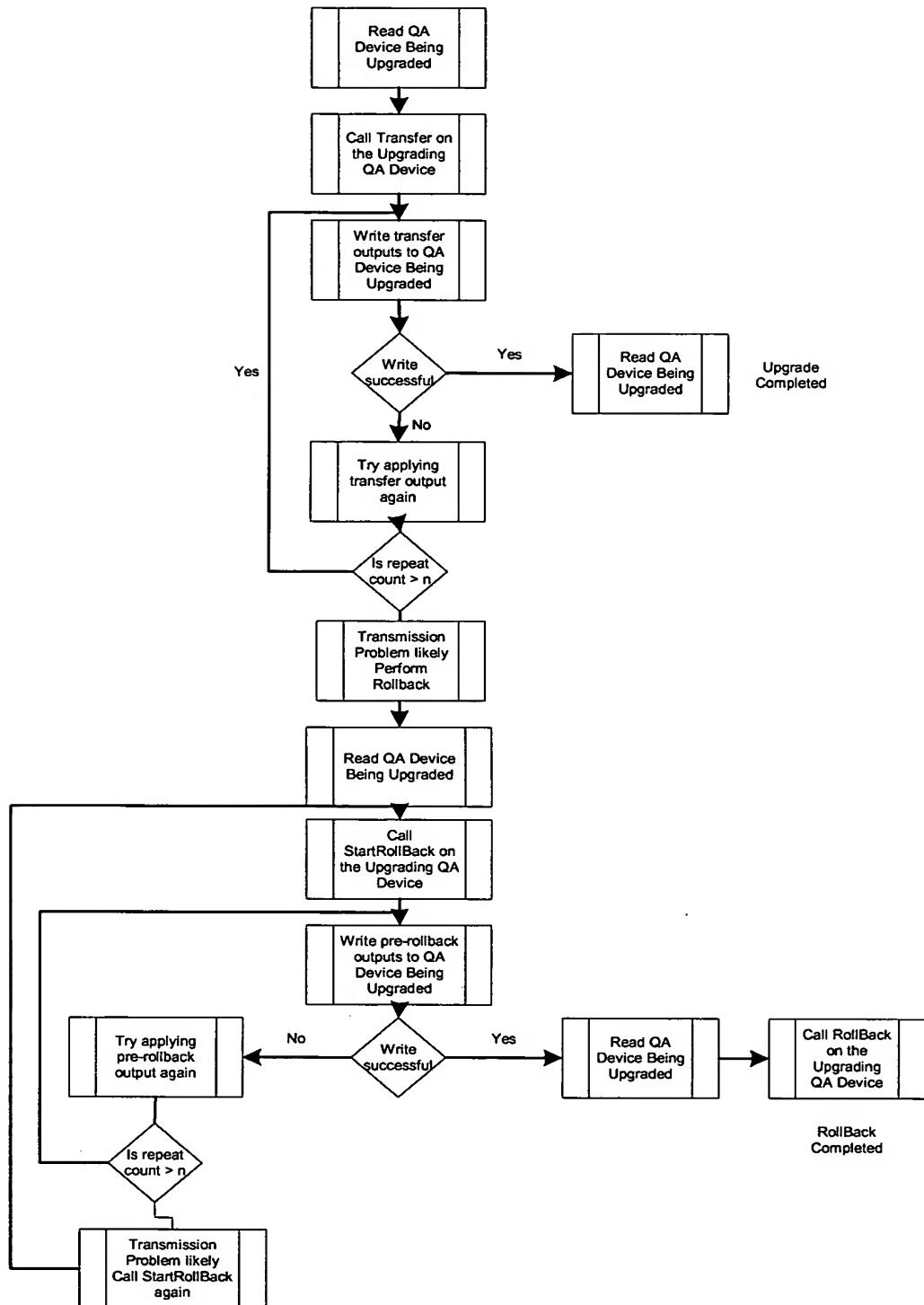


FIG. 383

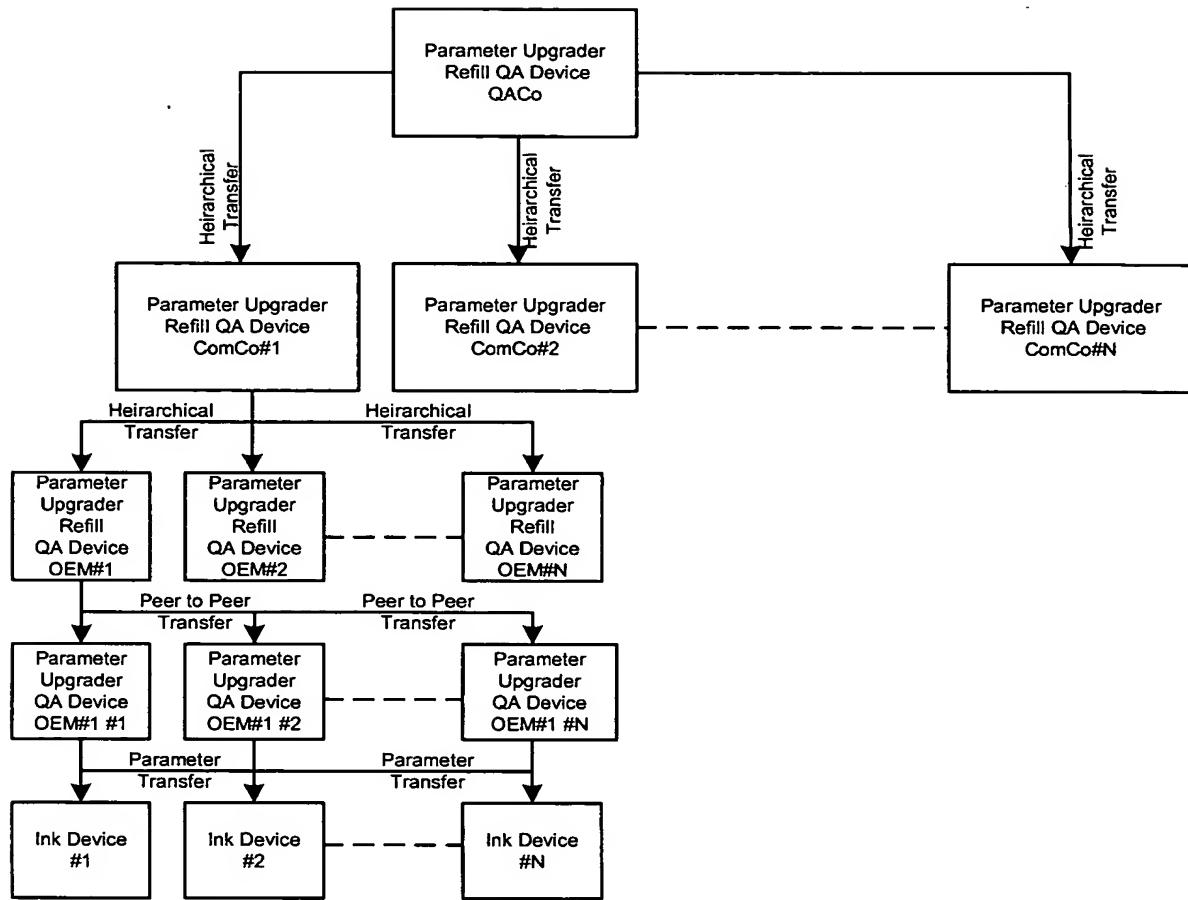


FIG. 384

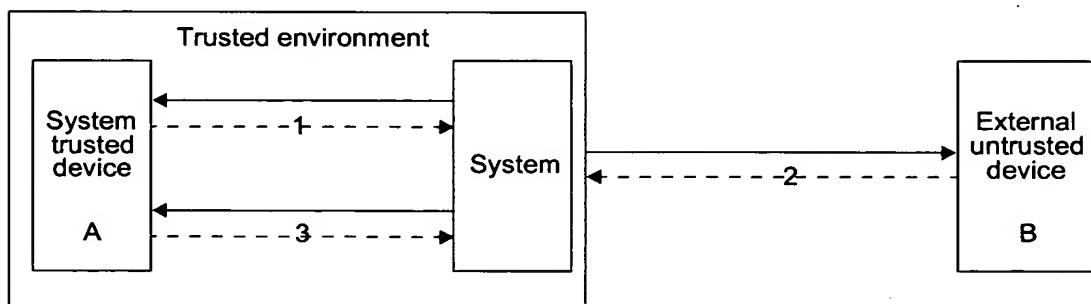


FIG. 385

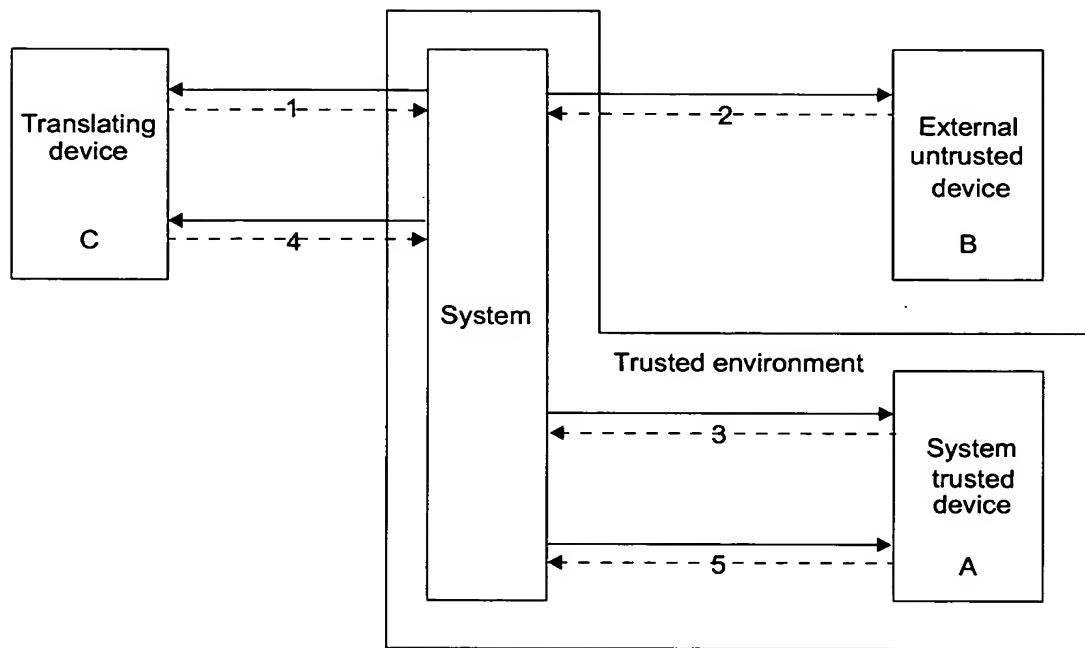


FIG. 386

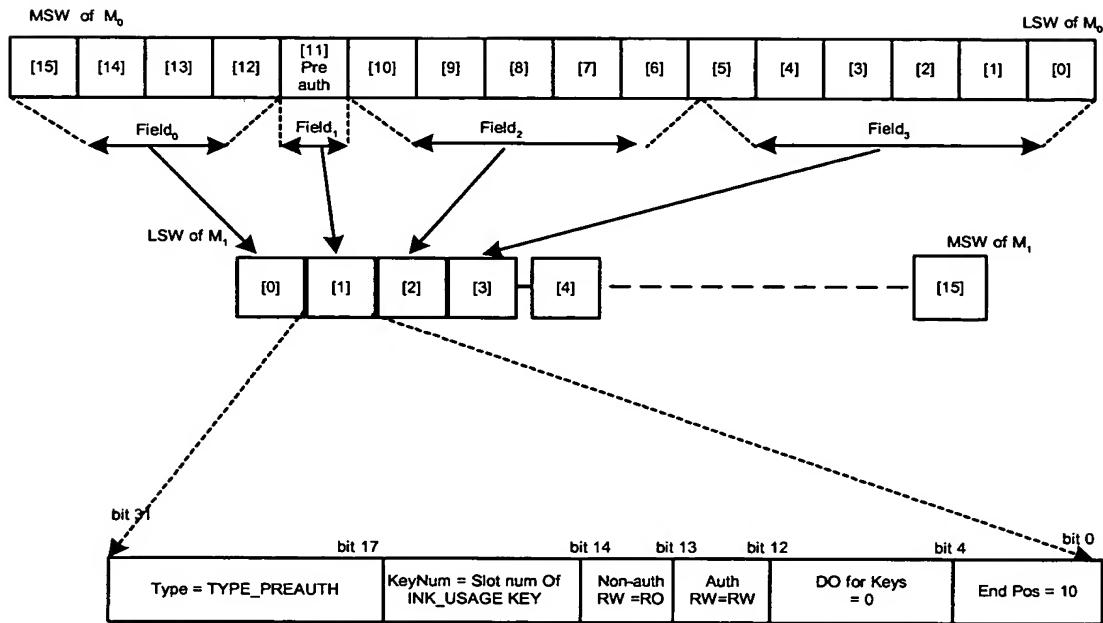


FIG. 387

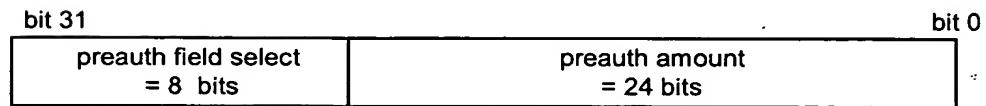


FIG. 388

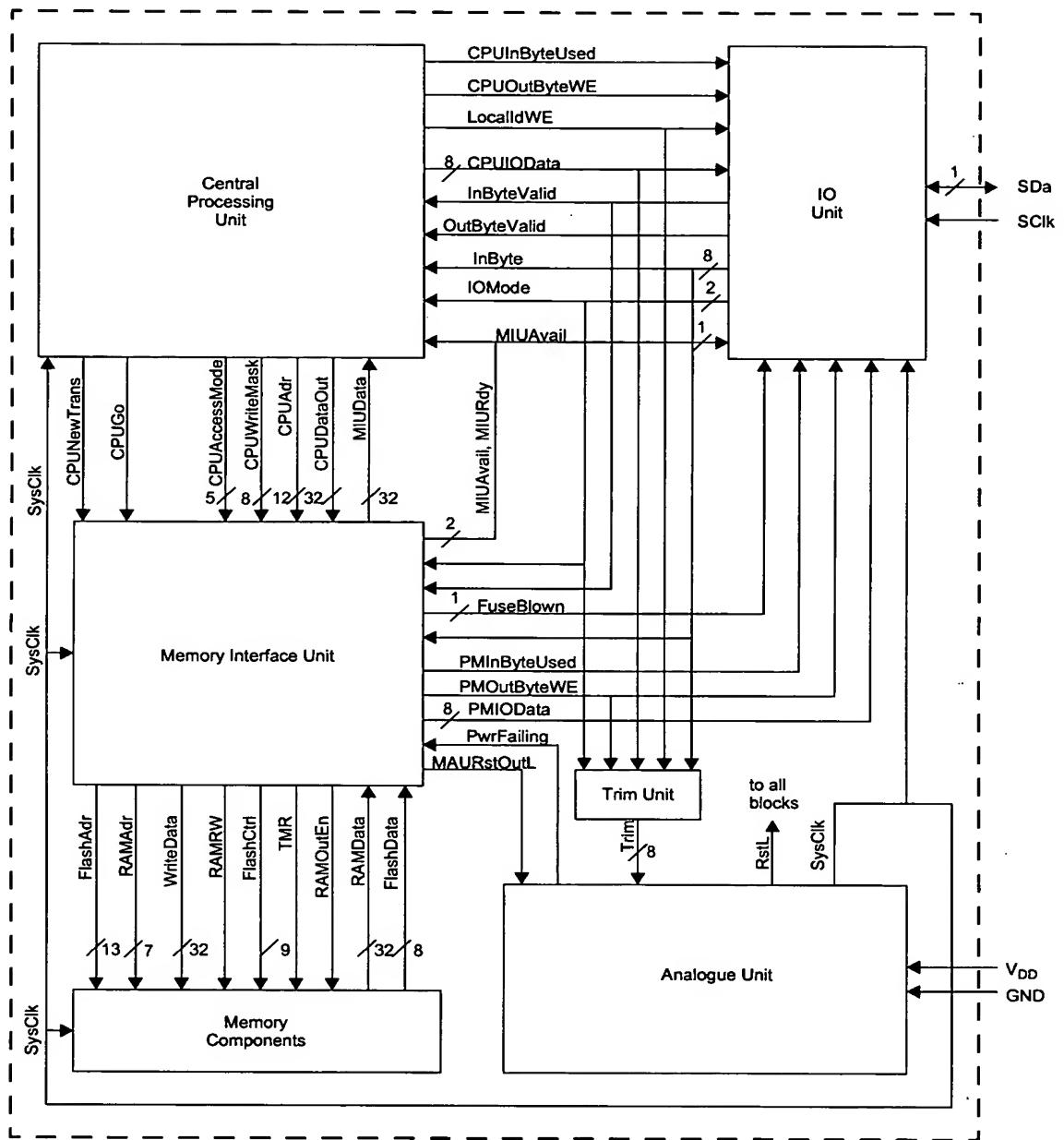


FIG. 389

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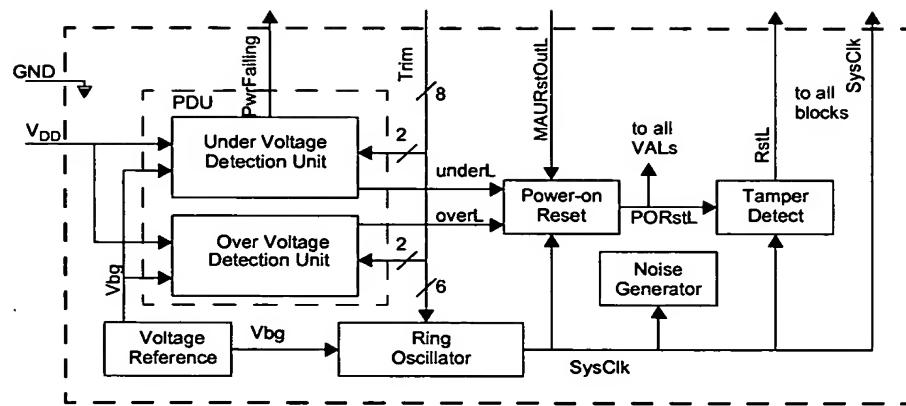


FIG. 390

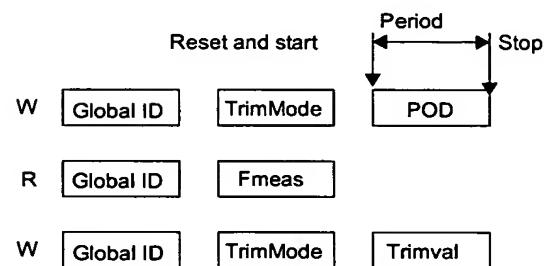


FIG. 391

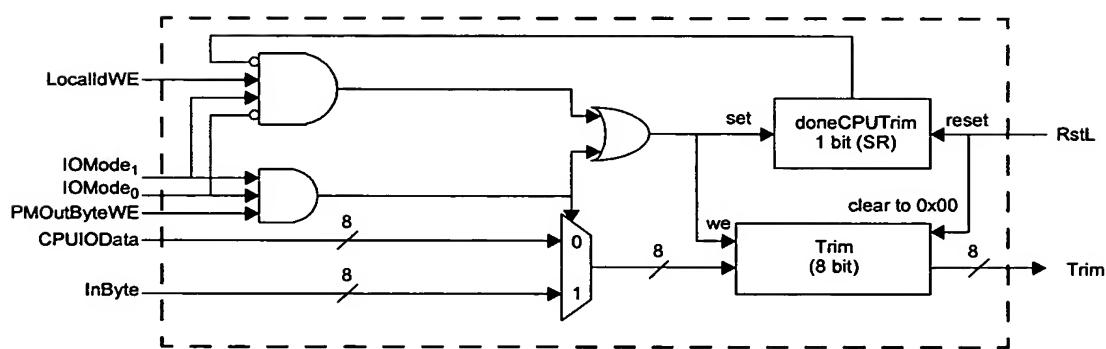


FIG. 392

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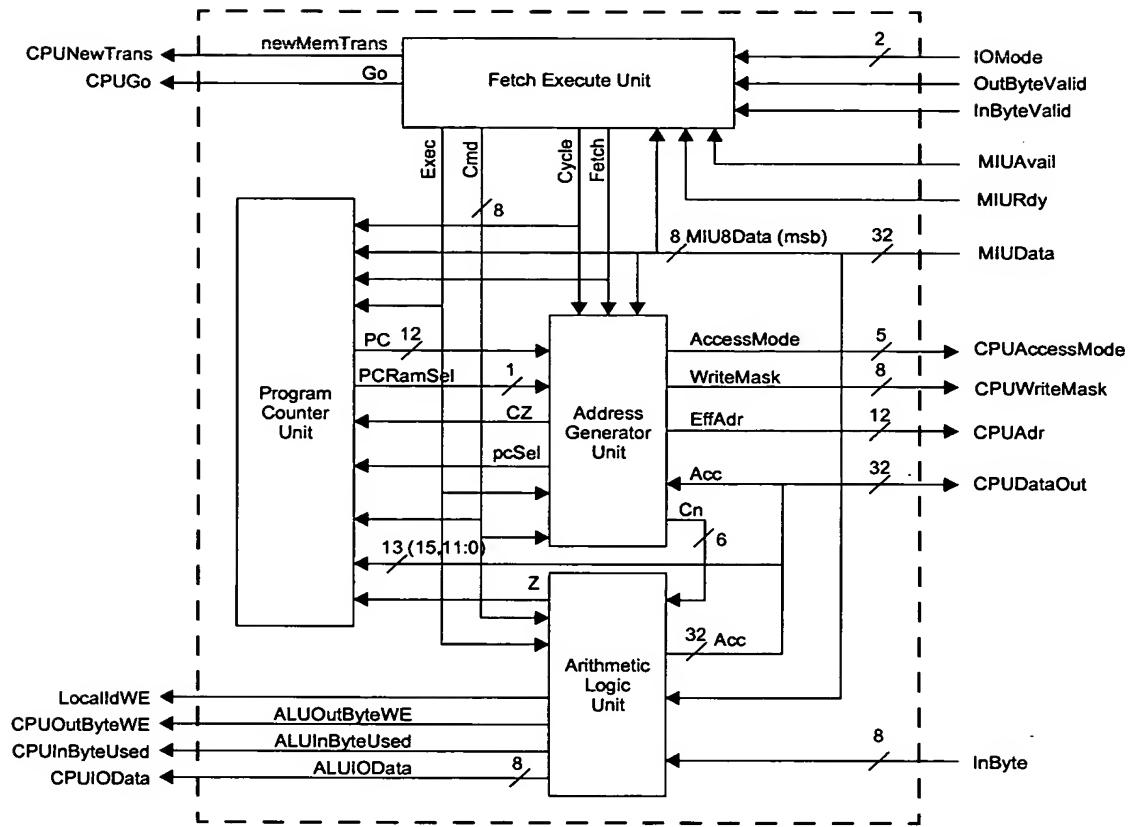


FIG. 393

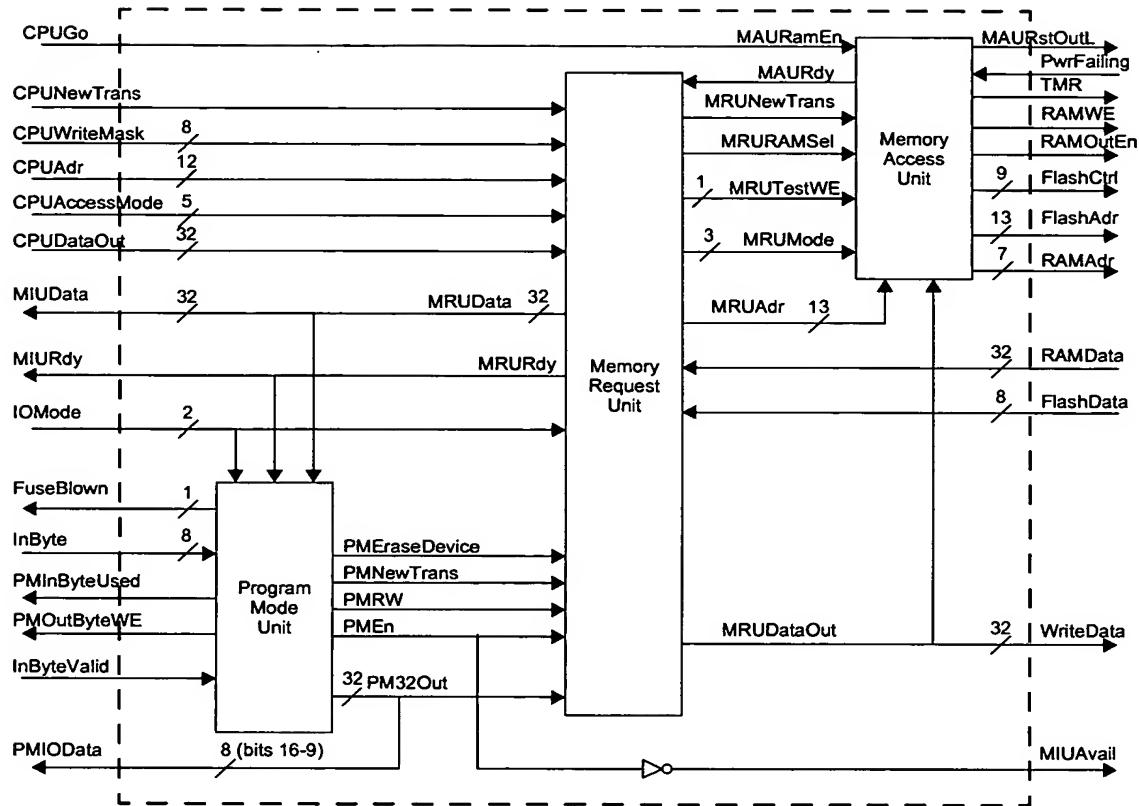


FIG. 394

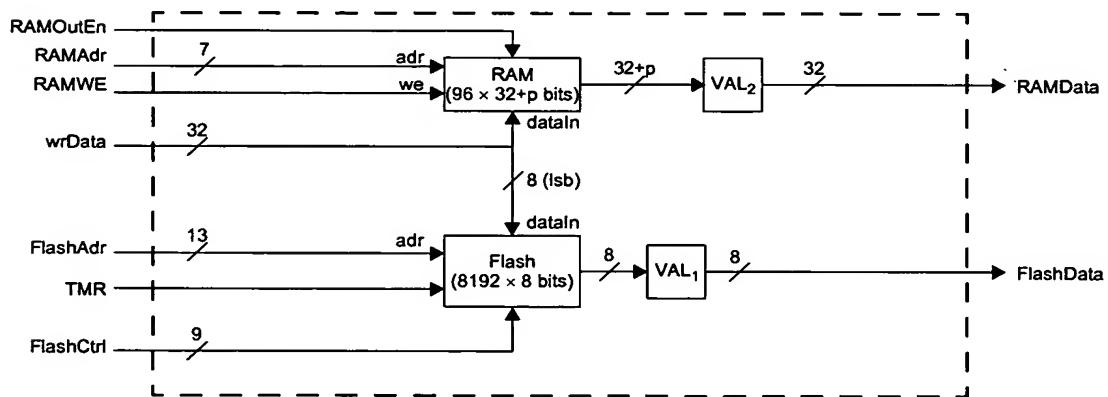


FIG. 395

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Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
PrID6	PrID5	PrID4	PrID3	PrID2	PrID1	PrID0	R/*W 0 = write 1 = read

FIG. 396

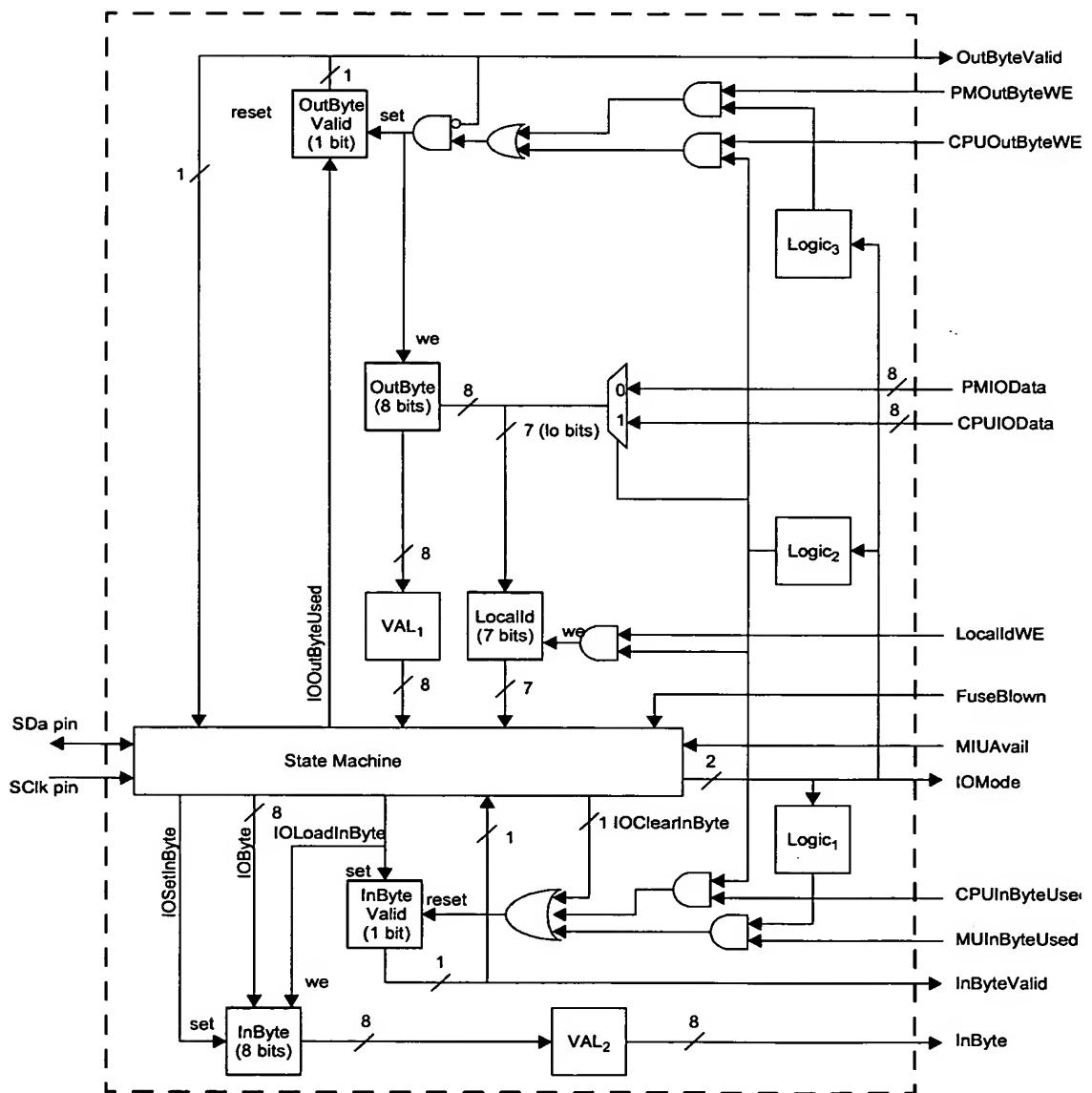


FIG. 397

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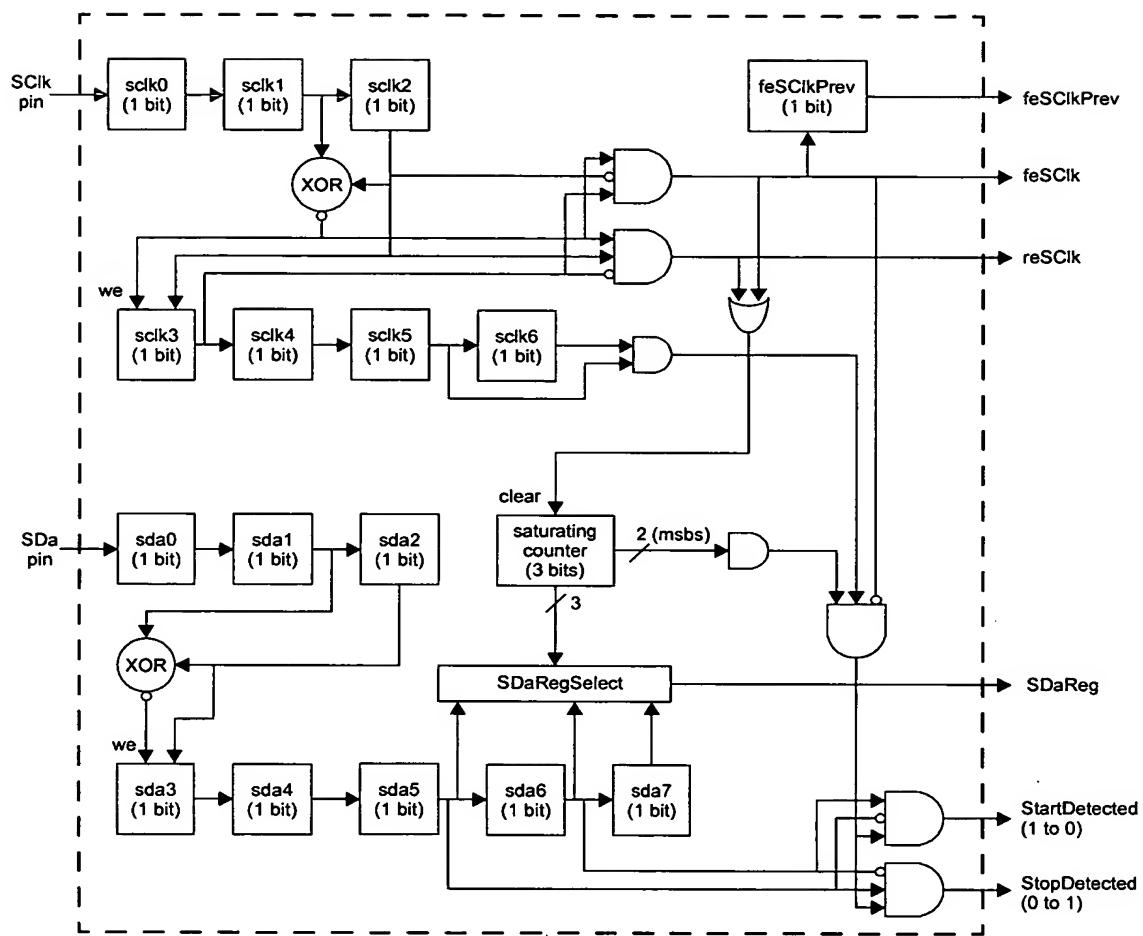


FIG. 398

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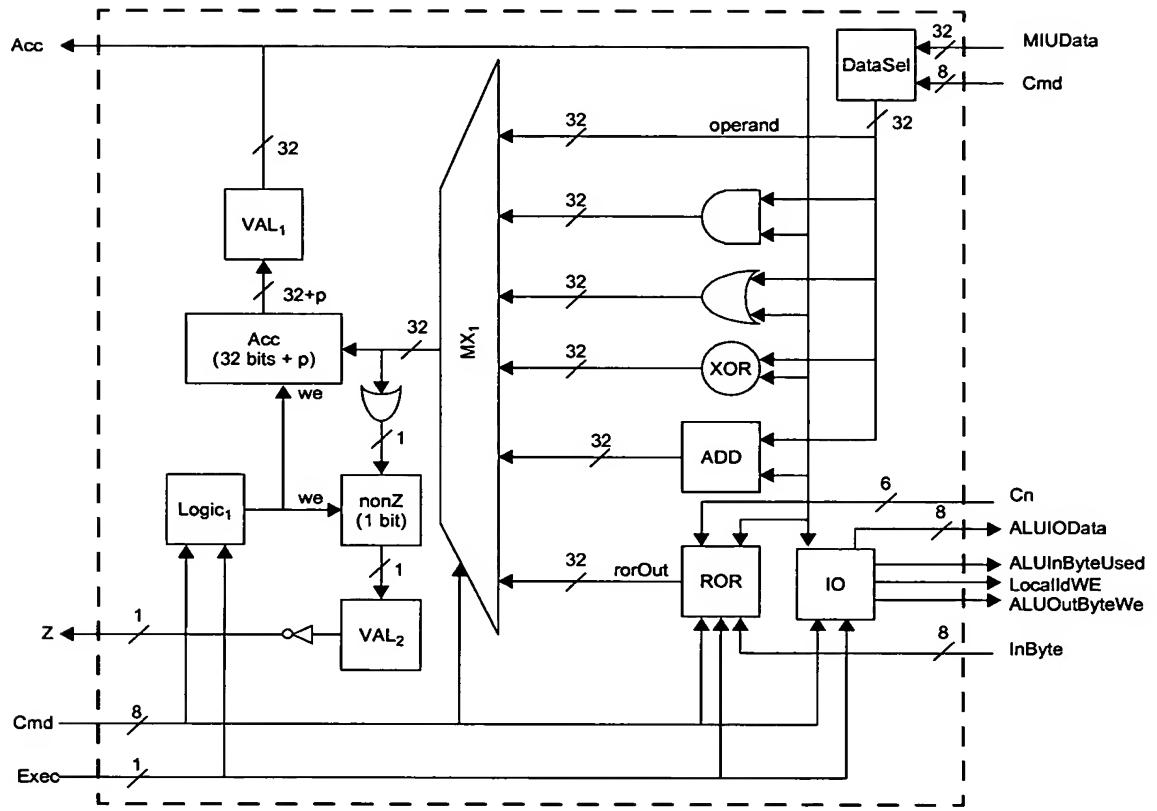


FIG. 399

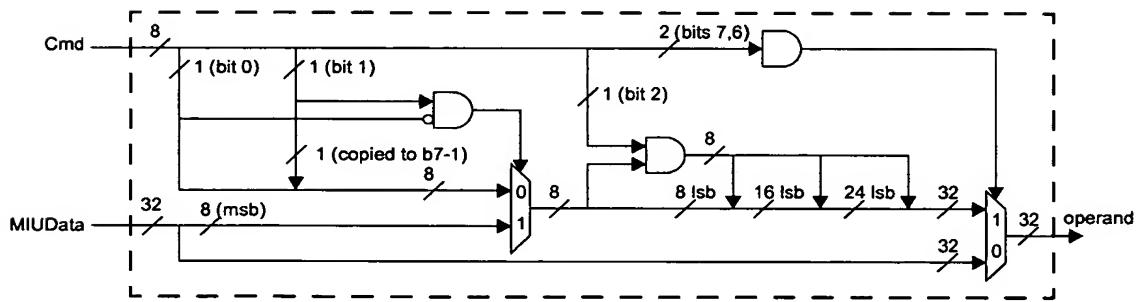


FIG. 400

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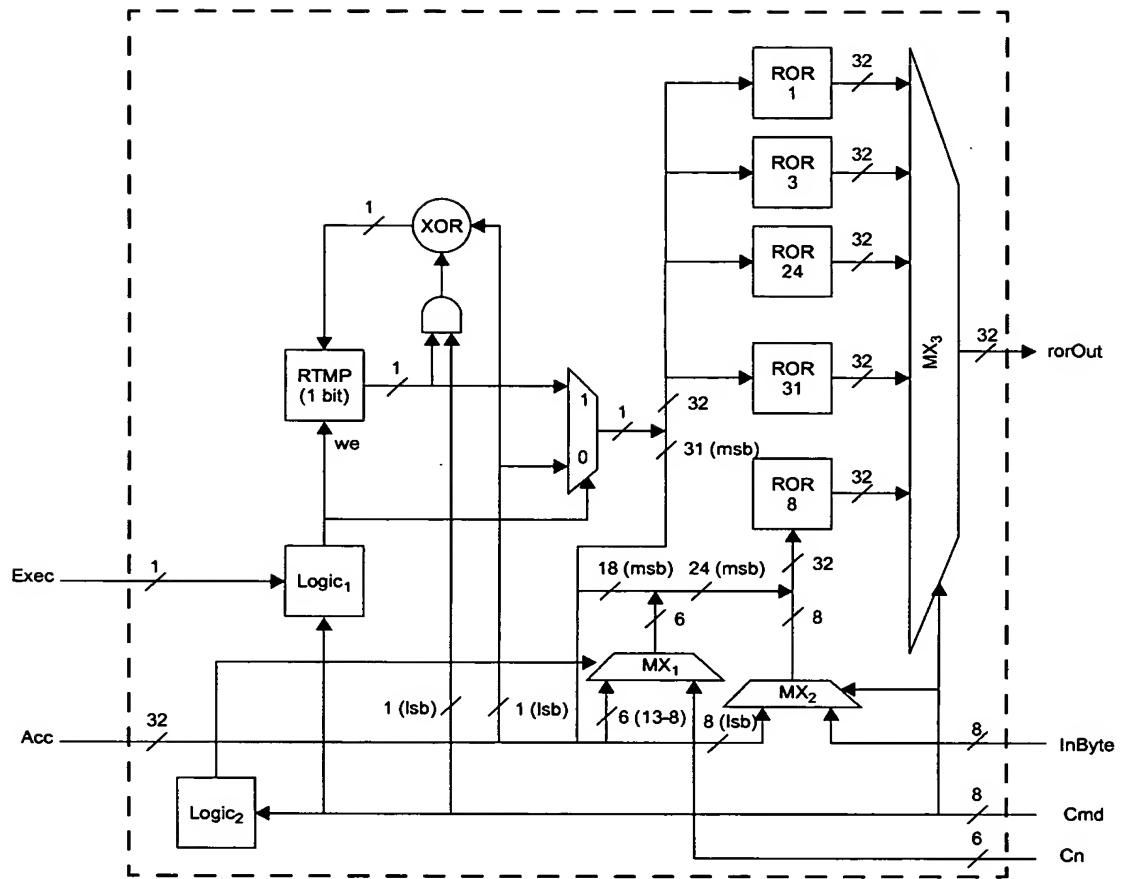


FIG. 401

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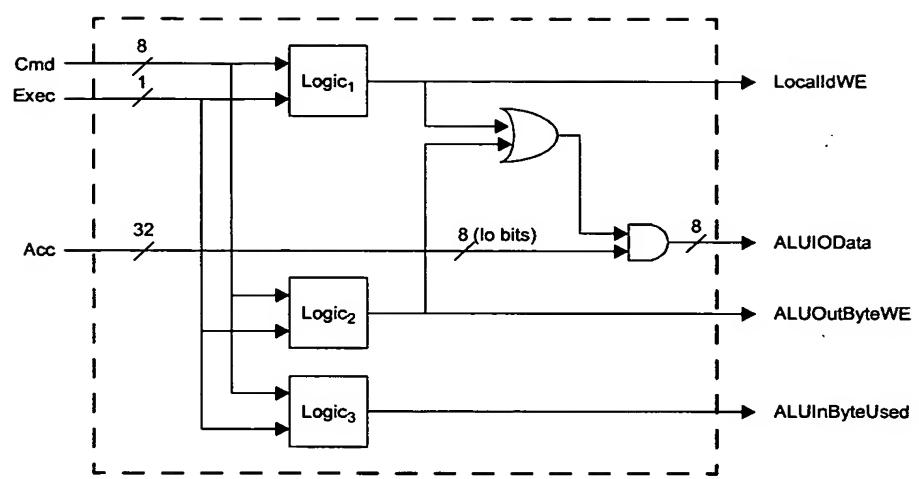


FIG. 402

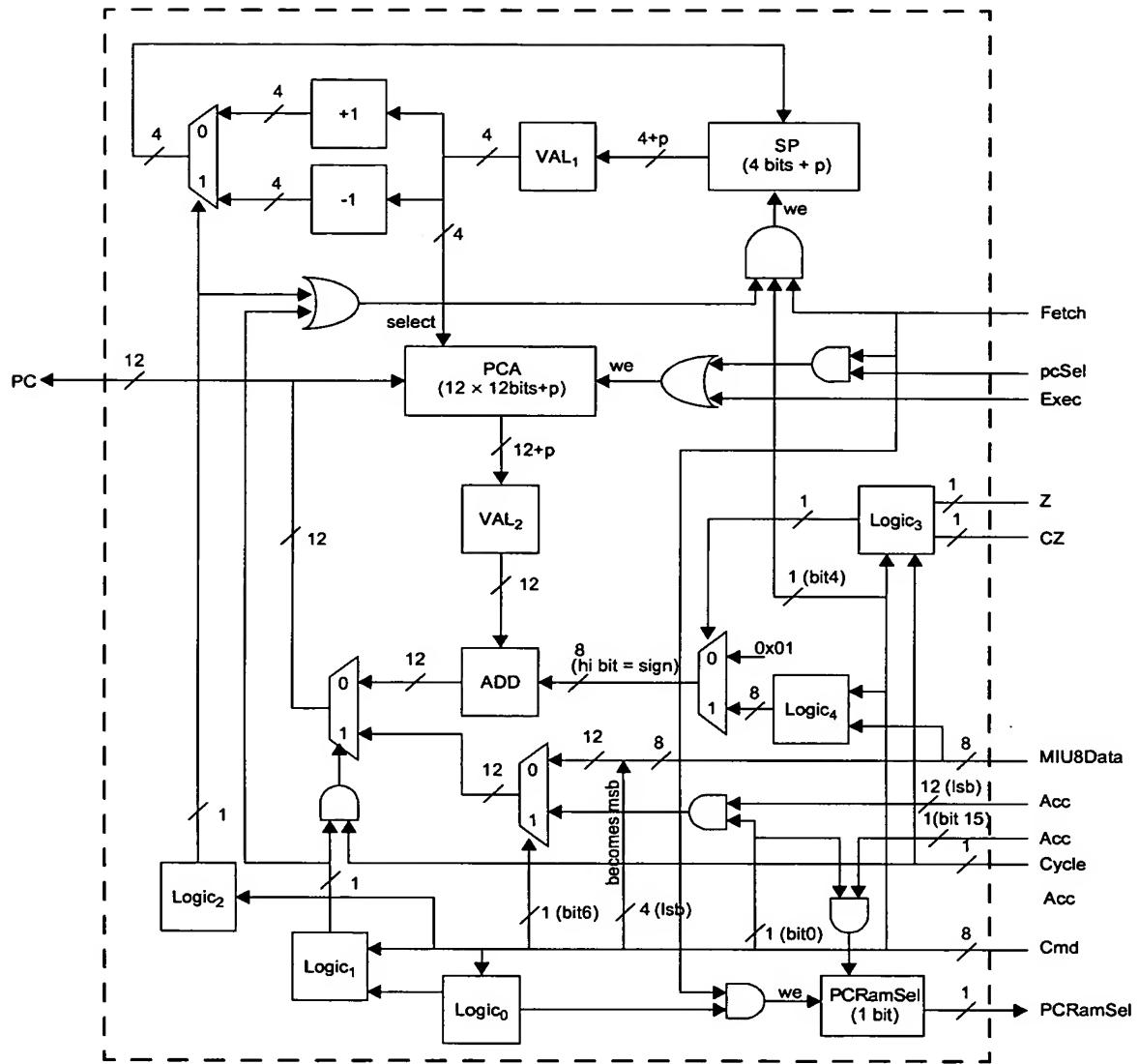


FIG. 403

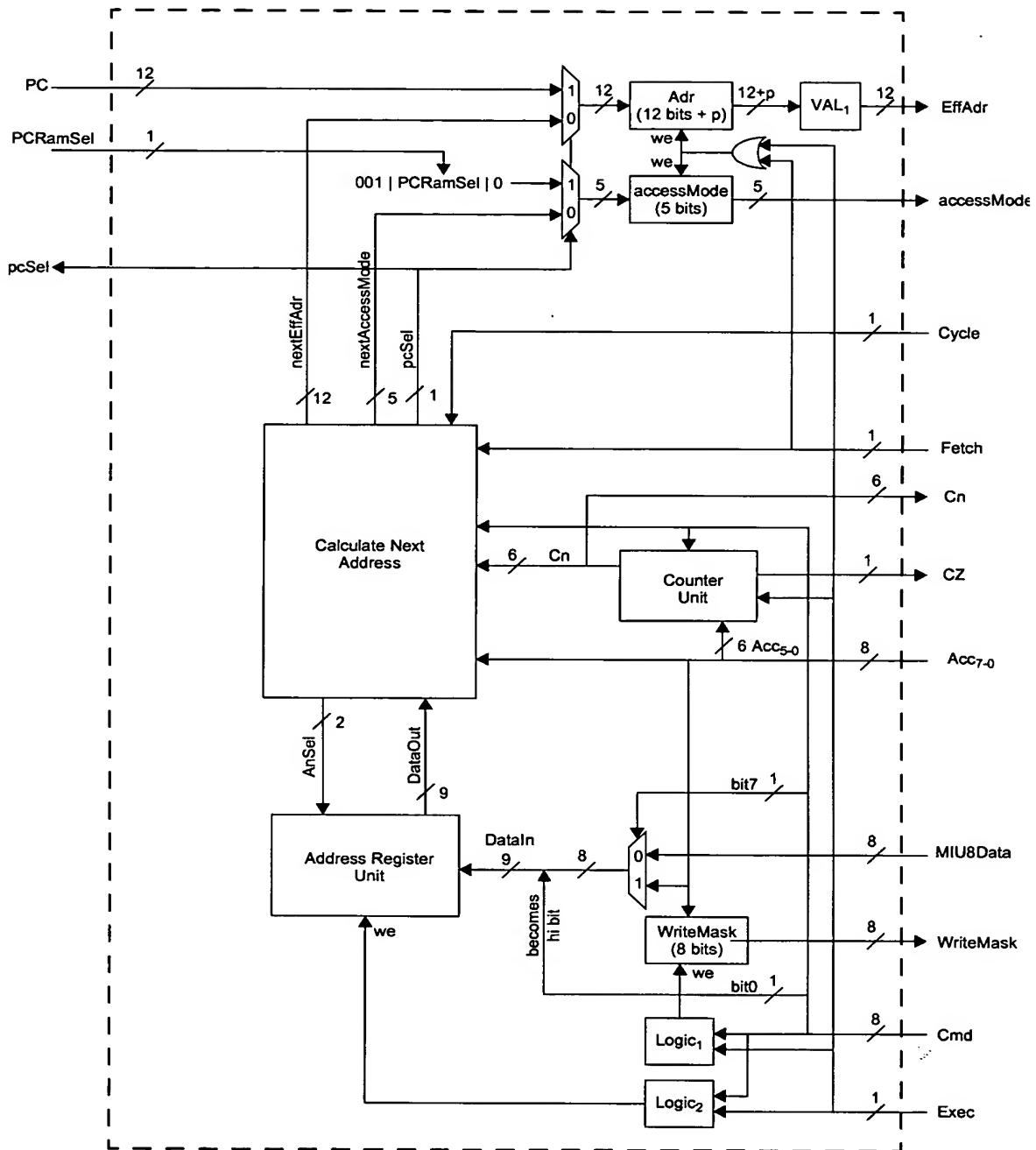


FIG. 404

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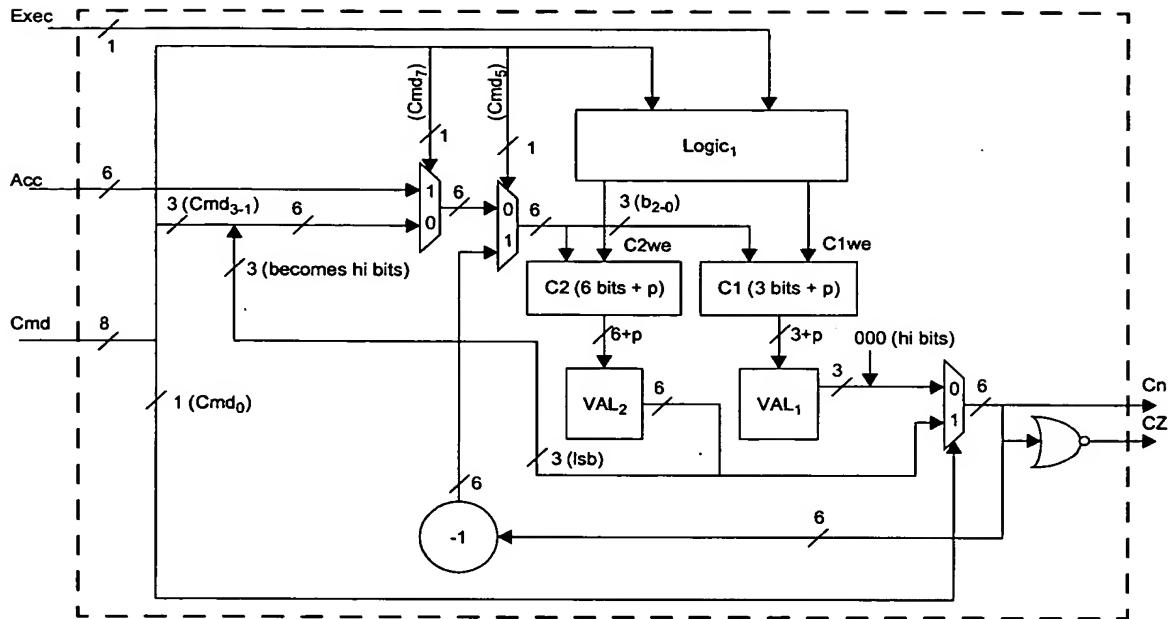


FIG. 405

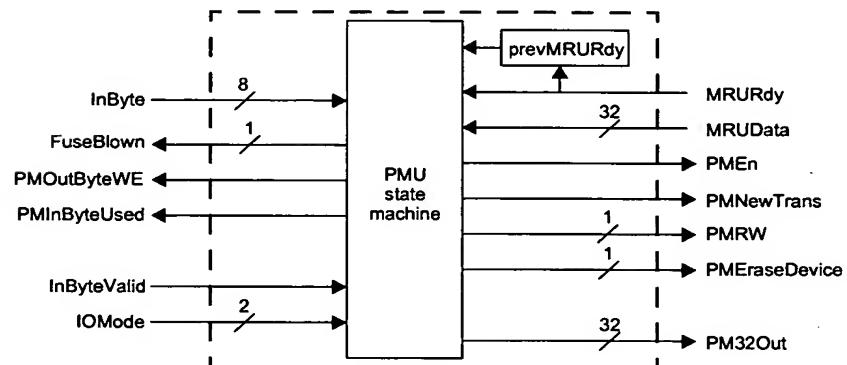


FIG. 406

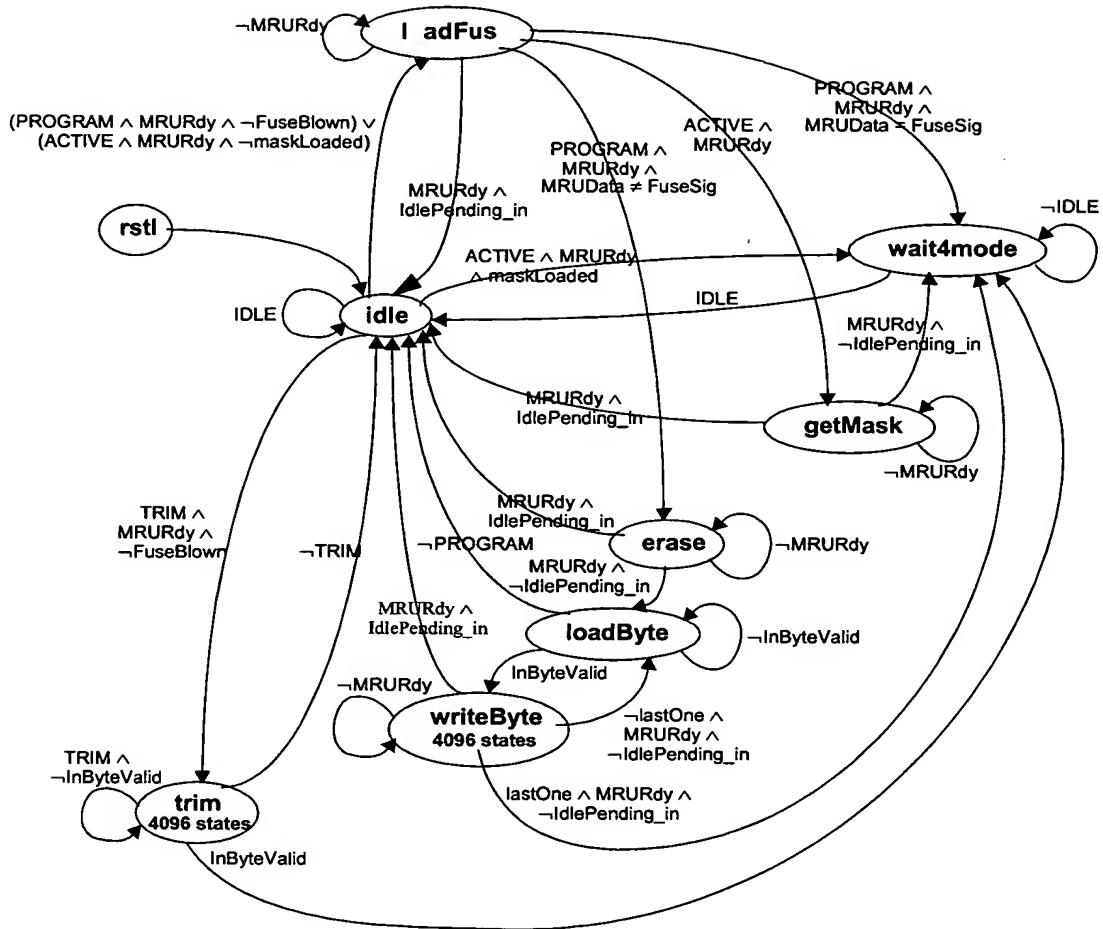


FIG. 407

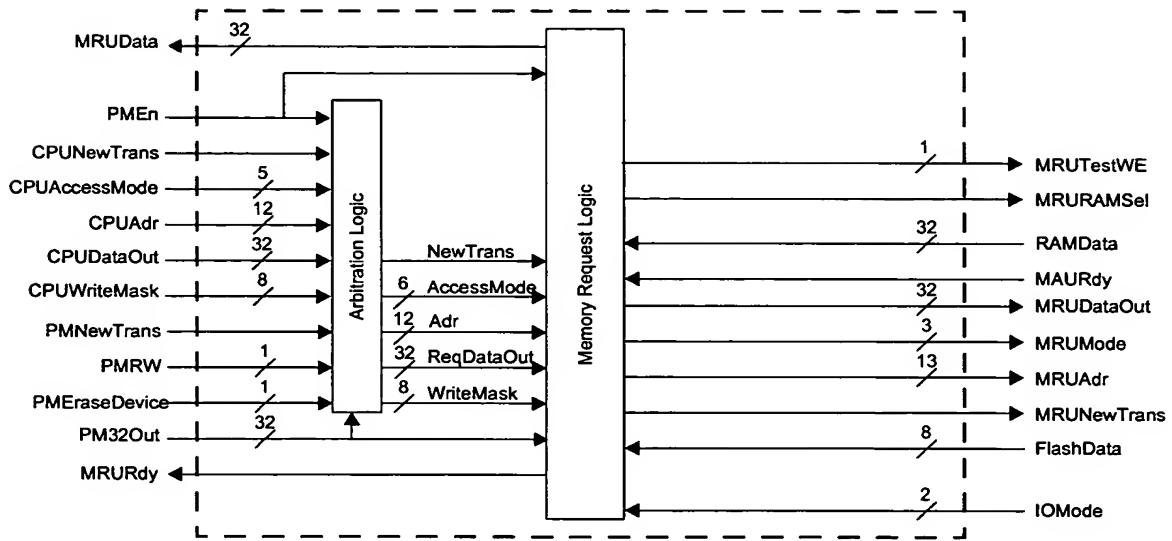


FIG. 408

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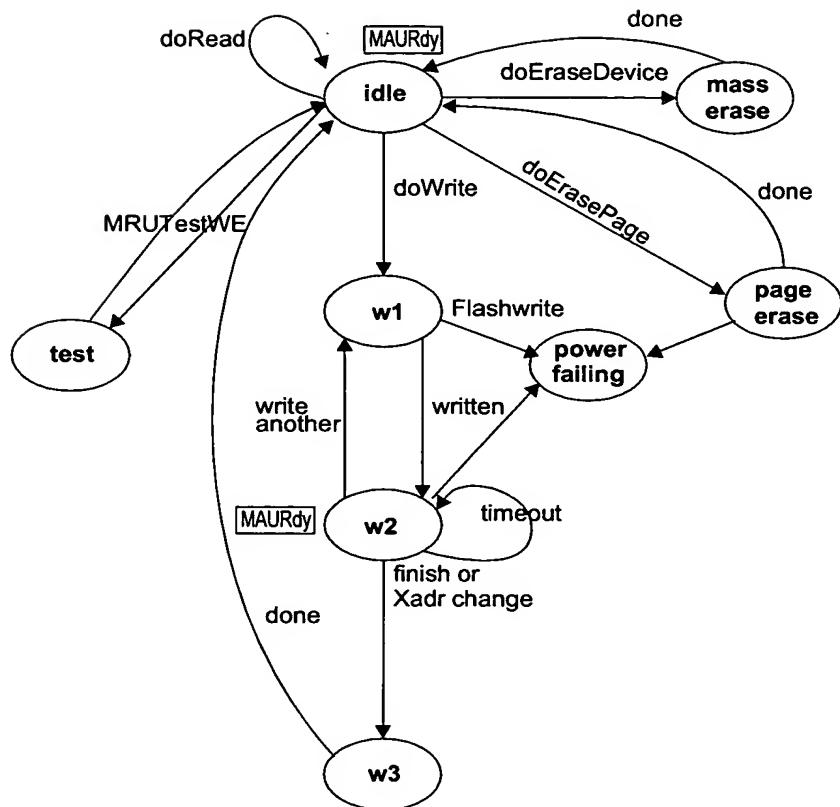


FIG. 409

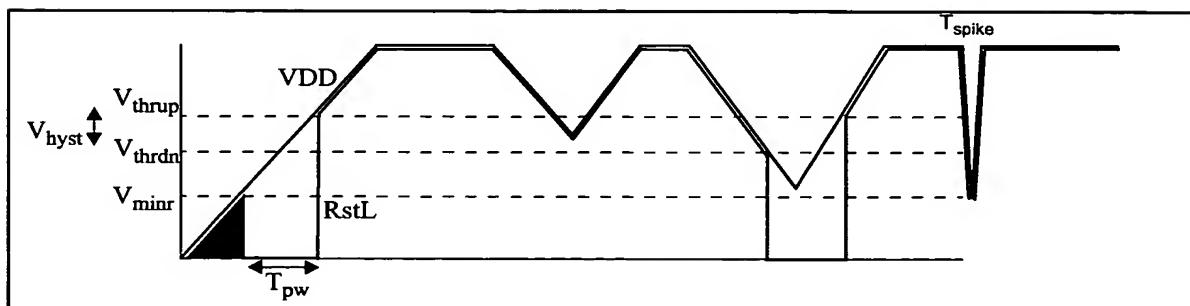


FIG. 410

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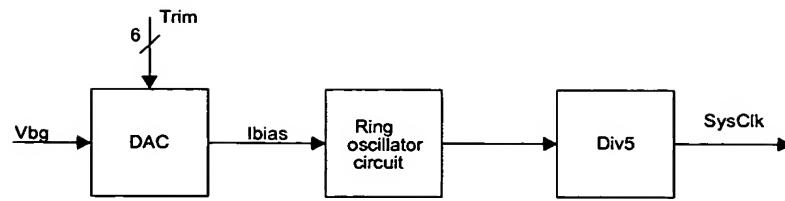


FIG. 411

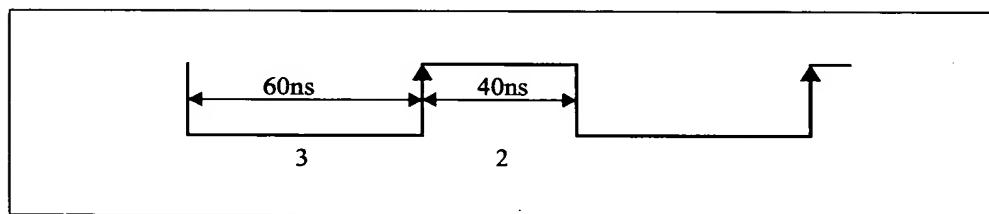


FIG. 412

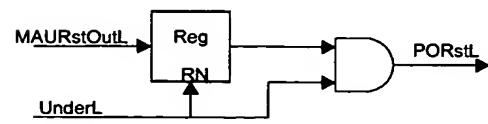


FIG. 413